

The logo for SINTAN Chemicals features the word "SINTAN" in a bold, black, sans-serif font. The letter "S" has a blue dot above it. The letter "A" has a red triangle below it. The letter "N" has a green triangle above it. The background is a white field filled with a dense, scattered pattern of small, colorful geometric shapes, including triangles and circles in shades of blue, green, orange, and red.

SINTAN

C H E M I C A L S

Science for **leather**

INDEX

BEAMHOUSE CHEMICALS

Turax PH	Turwet A	Turenzym SE	Turtens DEG
Turax DLM	Turenzym S	Turenzym WB	Turtens WSH
Turax B100	Turenzym 1000	Turenzym MT	Turtens K
Turax MA	Turenzym DP	Turtens NAM	Turcalim PE-S

BACTERICIDE & FUNGUCIDE

Turchem FG-30S	Turchem FG-50S
Turchem FG-30W	Turchem SR-40

CHROME SYNTAN

Sintogreen CR 100
Sintogreen CR 200
Turtan ALU

ACRYLIC POLYMERS

Turacryl EFS 300
Turacryl EFS 400
Turacryl SML
Turacryl STM
Turacryl BIO CAU
Turesin AA 42

SYNTANS

Turtan P 015	Turtan P 400	Turtan PW 600	Turtan N 100
Turtan P 100	Turtan P 710	Turtan S 015	Turtan N 106
Turtan P 105	Turtan P 780	Turtan S 100	Turtan COL
Turtan P 200	Turtan P 900	Turtan S 200	Turtan XO
Turtan P 205	Turtan P 915	Turtan ES 400	
Turtan P 300	Turtan PC 90	Turtan X 400	

LIQUID SYNTANS

Turtan PL 100	Turtan PL 900
Turtan PL 200	Turtan PLW 600
Turtan PL 300	Turtan SL 100
Turtan PL 400	Turtan SL 200

RESINS

Turesin D 100	Turesin D MAX	Turesin M 105	Turesin ZF
Turesin D 105	Turesin DC SUPER	Turesin M 200	Turesin MLF
Turesin D 400	Turesin DA 21	Turesin M 711	Turesin DLF
Turesin D 471	Turesin DX	Turesin M 755	
Turesin D 711	Turesin DT	Turesin M 765	
Turesin D 755	Turesin F1	Turesin MEL	
Turesin D 765	Turesin M 100	Turesin W 701	

LIQUID RESINS

Turesin ML 315

FATLIQUORS

Turon ALX-10	Turon SCS	Turon RUB	Turon SUED
Turonyl AMG	Turon VKS	Turon ANT-S	Turonyl RM
Turon CAT	Turon TOG	Turon SWP	Turonyl VIP
Turon S 60	Turon FER	Turon CSF	Turonyl BTS-NEW
Turon LCT	Turon SEP	Turonyl BLC	Turonyl NFO
Turon FLN	Turon RPA	Turonyl SFT	Turonyl LAN
Turonyl MOD	Turonyl Q7	Turon FN3	

SPECIAL PRODUCT

Turtan TAN

SİNTAN KİMYA SANAYİİ VE TİCARET A.Ş.

Every great success story has a humble beginning. Our protagonist **SİNTAN**, a leather chemicals producer based in **Turkey**, was founded in 2006 in İzmir with a visionary goal – to provide cutting-edge chemical solutions to the leather industry while maintaining a commitment to sustainability and quality. From its foundation, the company set out to revolutionize the leather chemicals sector and become a beacon of excellence.

At SİNTAN, we offer a comprehensive range of leather chemicals from raw to crust, our product portfolio includes beamhouse chemicals, bactericides and fungicides, syntans, chrome syntans, resins and polymers, and fatliquors. Our commitment to quality ensures that each product adheres to the highest industry standards, giving you peace of mind and confidence in your operations. Our **ISO 9001 Quality Management Certificate**, guarantee our professional approach to the business.

Our company is designed with full automation using all available technological means and follows a zero-waste principle to minimize our environmental impact. With the zero-waste principle in place, our production processes do not generate waste, and we reduce natural resource consumption by employing closed-loop water systems. line. As a part of this perception, we beheld **ISO 14001 Environmental Management System certificate**.

"Safe business environment for all" policy that SİNTAN cares the most is also certified with **ISO 45001 Occupational Health and Safety Management Systems**.

With the vision of ZDHC, it is one of our goals to reduce the chemical footprint of the industry and to protect the planet for this purpose. Our collaboration with global brands, chemical suppliers, manufacturers, and other organizations that share this vision is part of sustainability. Since 2021, SİNTAN is a ZDHC LEVEL 3 Compliant producer.

Our membership in the Leather Working Group is also an indication that we are expanding our commitment to sustainability.

OUR PRODUCTION

Our **advanced production line** beholds specifications like: Production site managed and monitored with currently the most known qualified constantly **safe control systems** available. In addition, upgrade batch module which provides better execution of our control steps had been added to the original system.

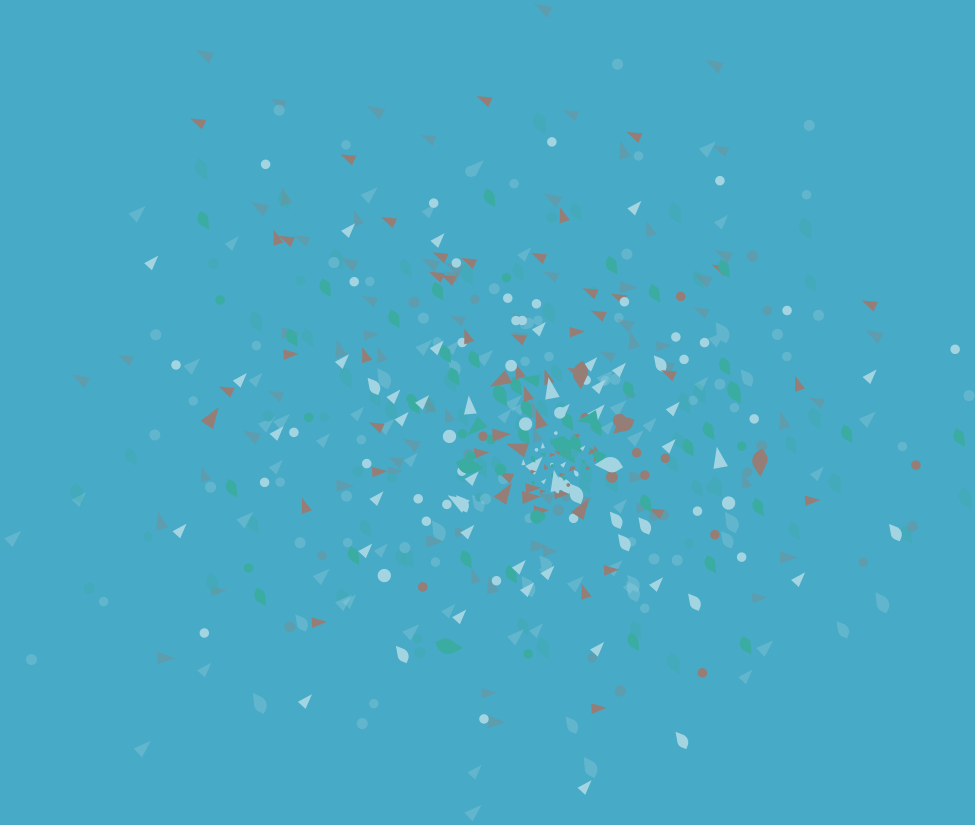
Mass flowmeters (coriolis type) are used in the liquid raw material lines for exact additions' values. **Proportional flow control** valves are used to prevent the contamination of the raw materials.

Our whole production process is completely monitored within the help of "state of art" PLC systems. But more important then the production technology, our QC professionals within the help of our **high standard** QC equipments, monitors and analyzes our production line from the raw material acceptance until the final packaging stage to provide our customers "performing chemicals with always constant quality" policy. Our advanced packaging system provides the **ultimate protection** to the end of the production line.



Science for **leather**

**BEAMHOUSE
CHEMICALS**



SINTAN
CHEMICALS

TURWET A

Core Points: High performance soaking and emulsifying chemical for wetting and liming process of all kinds of leathers.

Chemical Structure: Mixture of emulsifying agents and hydrotropic substances.

Specifications:

Appearance: Colorless transparent liquid

pH (direct): 6,5-8,0

Applications:

Turwet A is a completely biodegradable agent which has characteristics to emulsify while perfectly wetting. It can be used at a very wide range of pH value, as the performance of the chemical is not related to medium pH.

Turwet A has high capability of emulsifying the natural fat. This feature helps to reduce water surface tension, enhances cleaning effects and creates perfectly cleaned, uniformly wet leather.

Turwet A can be added to drum without diluting. No densification and little foam in drum.

Recommended usage of Turwet A:

- 0,4 -1 % based on salted weight;
- Wetting of all kinds of dry skins
- Wetting of all bovine hides which has high natural fat
- Reducing the time of soaking process

Packaging: 120 kg Plastic Drum

Storage: At least one year when stored properly according to international industrial norms. Below + 10 °C viscosity can increase and around 0 °C it is cloudy. It turns back to its original aspect when heated to room temperature. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Follow instructions on product Safety Data Sheet.

TURAX PH

Core Points: pH balancing chemical at soaking stage of all kinds of raw hides/skins.

Chemical Structure: Mixture of mild alkalines.

Specifications:

Appearance: Beige - pinky powder

Total Solid (%): min. %95

pH (1:10): 11,5 ± 1

Applications: Turax PH enables to reach desired pH value safely and quickly during soaking and liming processes without damaging fibers of skin/hide.

Alkaline chemicals such as Sodium Carbonate and Sodium Hydroxide are effective only at soaking stage. Turax PH, ensures better improvement of quality of the pelt hides due to its chemical property compared to soda ash or other alkaline components.

Advantages of using Turax PH:

- No abbrasive effect on the skin fibers
- Less time for soaking
- Auxiliary to improve the quality of pelt by adjusting desired pH

Turax PH is used as powder and when its solved in acidic conditions there is some partially insoluble materials.

Recommended usage of Turax PH:

- Raw Skin/Hide Soaking : 0,1-0,4% weight of fresh or salted raw hides and skins
- Liming : 0,3-0,4% weight of fresh or salted raw hides and skins

Packaging: 25 Kg. Kraft Bag

Storage: At least one year when stored properly according to international industrial normss. When its open, it must be consumed within short time and kept its own package until finished.

Safety Instruction: Do not breathe.Follow instructions on product Safety Data Sheet.

TURAX B 100

Core Points: Auxiliary product based on MgO used as self-basifying agent for mineral salts tanning procedures.

Chemical Structure: Self-basifying agent.

Specifications:

Appearance: White to greyish powder

Total Solid (%): 99%

pH (1:10): 10-10,5

Applications: Turax B 100 is an auxiliary product, acting as self-basifying agent, which ensures an optimal gradual full basification during chrome and other minerals tanning. Due to Turax B 100 slow and progressive solubility in acid media, precipitation of pH sensitive mineral salts and consequent “over basification” is avoided and even distribution of tanning salts in the pelt is obtained. As it dissolves slowly Turax B 100 required a continuous running time of at least 8 hours.

Advantages of Turax B 100 are:

- It saves man power
- It protects from eventual mistakes in dosing straight soluble alcali.
- Safe usage due to specified uniform particle size.
- It renders constant and uniform wet blue quality.

Recommended usage of Turax B100:

- At the end of mineral tanning: For bovine 0,3-0,5% and for ovine 0,5 to 0,8% on pelt weight depending on tanning offer and pickle starting pH value.

Packaging: 25 Kg. Kraft Bag

Storage: At least one year when stored properly according to international industrial normss and practice between 5 - 50 °C within their original packaging. When its open, it must be consumed within short time and kept its own package until finished.

Safety Instruction: Do not breathe.Follow instructions on product Safety Data Sheet.

TURAX MA

Core Points: Masking agent for chrome salts during chrome tanning of all kinds of leathers.

Chemical Structure: Mixtures of organic and inorganic based complexing substances.

Specifications:

Appearance: White Powder

Total Solid (%): min % 95

pH (1:10): $7,5 \pm 0,5$

Applications: Turax MA creates full skin by building complex with chrome salts. It improves the distribution of chrome while increasing the chrome exhaustion. Turax MA reduces risks of chrome precipitation and it gives WB skins with fuller handle, light color, flat and smooth grain. Turax MA makes leather more easy to buff and suedes have better writing effect. Turax MA improves the tear resistance.

Turax MA can be given in between two chrome processes or at the end of chrome tanning gradually. Before giving cationic auxiliaries during these additions, it must be turned for 30 minutes.

Turax MA is advised to use as diluted 1:5 with normal temperature/cold water approx 1 hour before to give into drum. During dilution as there will be carbonic acid gases, the size of mixing container must be taken into consideration.

Recommended usage of Turax MA:

- % 0.5- 3 based on pelt weight (considering quantity of used chrome salts as well)

Packaging: 25 Kg. Kraft Bag

Storage: At least one year when stored properly according to international industrial norms. When its open, it must be consumed within short time and kept its own package until finished.

Safety Instruction: Please revert to related Safety Data Sheet.

TURAX DLM

Core Points: Complex active delimiting agent for all kinds of skins.

Chemical Structure: Mixture of very special aromatic acid salts and buffering salts of ammonia.

Specifications:

Appearance: Ivory-White powder

Total Solid (%): min. %95

pH (1:10): 2,5-3,5

Applications: Turax DLM due to its buffering property maintains the pH at the same level during delimiting process even if its used with high quantities.

Turax DLM cleans the pelt during delimiting and gives very uniform smooth grain. Following delimiting process it cleans the skin very well while creating perfectly smooth grain. Turax DLM allows easy removal of lime from the pelt and creates leather with full handle and flat grain which can be dyed deeply and uniformly.

Turax DLM is suitable to be used short and long floats. It works rapid and thorough delimiting without making the hide/skin empty, it can be mixed with ammonia salts at any percentage. If its used during bating, improves the effect of bating operation while it allows continuing with the same bath.

Turax DLM can be used directly or solved with 1:3 water at 25-40°C.

Recommended usage of Turax DLM:

- 2 - 2,5% based on pelt weight for full grain leather

Packaging: 25 Kg. Kraft Bag

Storage: At least one year when stored properly according to international industrial normss. When its open, it must be consumed within short time and kept its own package until finished.

Safety Instruction: Do not breathe.Follow instructions on product Safety Data Sheet.

TURENZYM MT

Core Points: Enzymatic soaking agent for hide and skin manufacture, based on selected synthetic proteases designed to impart effective opening up and softness without hair loss.

Chemical Structure: Synthetic protease based enzyme.

Specifications:

Appearance: Light Brown Liquid

pH optimum: 6,0-11,0

Solubility: Completely miscible with water

Applications: Turenzym MT designed especially for the manufacture of all type of hides and skins, has a very wide range of applications in the processing of all types of hides and skins from fresh salted ones to dry ones. The product has outstanding rehydrating effect and significantly increases the effectiveness of the subsequent operations.

When added to soaking baths **Turenzym MT** speeds up and intensifies the soaking effect. **Turenzym MT** removes the nonfibrous proteins such as albumins and globulins as well as interfibrillary mucopolysaccharides and cleans other dirt of animal origin such as animal excrements. The result is exceptionally well soaked skins: more relaxed and well opened fiber structure, with brighter and cleaner wool are obtained. Soft, airy and light leathers with improved quality and higher surface area are obtained by a more environment friendly process.

In order to reach the desired results and to obtain the targeted features of the article, please get in contact with our technical team.

Packaging: 35 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and in a cool and moisture-free environment. When its open, it must be consumed within short time and kept its own package until finished. Above +25 °C, the storage life may be reduced by 3-6 months.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURENZYM WB

Core Points: Special enzyme for wet-toggled articles or any kinds of leather needs more area while increasing softness.

Chemical Structure: Protease and elastase-based enzyme.

Specifications:

Appearance: Ivory color powder with brown particles

Activity: 6.000 LVU/g

Total Solid (%): min.95 %

Applications: Turenzym WB, is used for increasing yield and softness of articles which will be wet-toggled without damaging the collagen fibers of the skin with the function of elastase enzyme. Gives desired softness and elasticity to wet-blue skins. Especially recommended for natural floater leather processes. Enhances wetting back process of overdried wet-blue skins.

Turenzym WB, can be used during neutralization and pH between 6-7, at 35 °C - 45 °C for 1 to 1,5 hour time period. At the end of the process, draining and washing again advised before proceeding to retanning stage.

Turenzym WB can be added directly to the drum.

In order to reach the desired results and to obtain the targeted features of the article, please get in contact with our technical team.

Packaging: 25 Kg. Kraft Bag

Storage: At least one year when stored properly according to international industrial norms and in a cool and moisture-free environment. When its open, it must be consumed within short time and kept its own package until finished. Above +25 °C, the storage life may be reduced by 3-6 months.

Safety Instruction: Please revert to related Safety Data Sheet.

TURENZYM SE

Core Points: Bating agent based on selected microbial proteases formulated to work at slightly acidic baths.

Chemical Structure: Protease based enzyme.

Specifications:

Appearance: Fine White Powder

pH optimum: 4,5-6,5

Solubility: Completely miscible with water

Applications: Turenzym SE is a neutral protease formulated to work at slightly acidic baths. Due to its very specific nature and the ingredients in the formulation the product softens the hides and skins, makes them lighter in weight, improves area yield, better and more performing dyeing, retanning and fat liquoring are achieved. Turenzym SE helps either to reduce necessary amount of fat liquor substantially or to increase substantially the softness without much affecting the fullness. Turenzym SE helps also the removal of wrinkles formed due to the mistakes made in earlier manufacturing stages. A more standard production quality with better performance on softness, tear strength, touch, fullness, dye evenness and brightness with better area yield is assured. Dyestuff penetration and dyeing uniformity therefore dyeing yield is greatly improved. The activity profile of Turenzym SE shows second to none smoothness over a wide pH range of $4,0 \leq \text{pH} \leq 7,0$ and the product is stable up to 45°C. Its high solubility allows Turenzym SE to penetrate very quickly to the leather cross section. Turenzym SE dissolves and removes all excess gelatinous material from the fiber and opens the structure so that dyeing, retanning and fat liquoring operations become more effective. Especially hides and skins with higher fat content become surprisingly lighter in weight compared with normal tanning practice. Cleansing effect associated with the product gives cleaner and even colored leather surfaces. Turenzym SE imparts an excellent degree of softness by hydrolyzing unwanted substances in the fiber structure and improves fat liquoring and retanning. Leathers show finer grain pattern and more elastic grain structure is achieved. A very significant increase in the surface area yield is obtained.

As such product finds its use at almost every manufacturing stage from pickling to depickling, from soaking and rewetting to neutralization and also on every type of skin and hide processing, from cow to sheep and double face. Unlike other enzymes Turenzym SE do not promote hair slip and it is kept at an absolute minimum. One quite important aspect of the product is that in tanneries where different origin raw materials are processed by simple but proper addition of Turenzym SE to the process the quality of the final leather is shifted towards more standard and higher quality.

Another use for Turenzym SE is depickling. When pickled stock is in question creases due to piling and insufficient bating are easily removed. Turenzym SE can also be used to standardize wet blue stock and obtain more homogenous bating effect and again to remove wrinkles due to piling and insufficient bating. In order to reach the desired results and to obtain the targeted features of the article, please get in contact with our technical team.

Packaging: 25 Kg. Kraft Bag

Storage: At least one year when stored properly according to international industrial norms and in a cool and moisture-free environment. When its open, it must be consumed within short time and kept its own package until finished. Above +25 °C, the storage life may be reduced by 3-6 months.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURENZYM S

Core Points: Very special enzyme for soaking process of salted and dry skins.

Chemical Structure: Mixture of bacterial wetting enzymes and surface active substances with pH balancing materials.

Specifications:

Appearance: Grayish white powder

Applications:

Turenzym S includes special wetting enzymes and pH balancing substances which has also high surface active capacity to shorten the necessary time for soaking and helps to adjust pH of soaking bath. Active fat solving component brings perfectly cleaning effect, especially inner side turns into clean, bright and white pelt look.

Turenzym S is a user friendly chemical due to all these specific features.

Turenzym S can be added directly without dilution.

Recommended usage of Turenzym S:

- 0,4 -0,5 % Soaking od salted pickle bovine hides (based on raw hide weight)
- 0,5 % Soaking of dry bovine hides (based on raw hide weight)
- Rapid soaking process lasts 3 to 6 hours depending on the conservation conditions of raw skins/hides.
- 0,5 - 1,0 % Soaking process of sheep skins for garment
- 0,5 - 1,0 % Fur- suede applications - Salted pickle sheep skins

Packaging: 20 kg Kraft Bag

Storage: At least one year when stored properly according to international industrial normss. When its open, it must be consumed within short time and kept its own package until finished.

Safety Instruction: Follow instructions on product Safety Data Sheet.

TURENZYM 1000

Core Points: Bating enzyme suitable for all types of skin.

Chemical Structure: Proteolytic bating enzyme with delimiting salts inside.

Specifications:

Appearance: Ivory powder

Total Solid (%): 800-1100 LVU/g

pH (1:10): min.95 %

Applications: Turenzym 1000 can be used at all kinds of skins bating process. It improves the performance of delimiting process in a resulting clean surfaced skins while desired softness and elasticity gained. It creates an optimal leather texture for tanning.

Bating is a process strongly based on temperature, pH and time, therefore in order to get perfect results, process must be adjusted based on the skins features.

In general, pH: 8 -8,7 is the most convenient pH value to get the best effects.

Turenzym 1000 can be used in various quantities just after delimiting process by adding directly into the drum at while medium pH 8- 8,5 based on the skin type.

Recommended usage of Turenzym 1000: (adjust pH value 9,0-9,5)

- 0,7 - 1,5 % bovine and goat shoeupper (based on pelt weight)
- 0,7 - 1,0 % Sheep and garment leather (based on pelt weight)
- 1,5 - 2,5 % calf garment leather (based on pelt weight)
- 0,5 - 2,0 g/l fur and suede - double face

Packaging: 25 Kg. Kraft Bag

Storage: At least one year when stored properly according to international industrial normss. When its open, it must be consumed within short time and kept its own package until finished. Above +25 cC, the storage life may be reduced by 3-6 months.

Safety Instruction: Do not breathe.Follow instructions on product Safety Data Sheet.

TURENZYM DP

Core Points: Acidic bating enzyme for all kinds of fur and skins/hides.

Chemical Structure: Contains protease enzyme.

Specifications:

Appearance: Brown granular white-ivory powder

Activity: 700 LVU/g

Total Solid (%): min.95 %

Applications: Turenzym DP helps diminishing the differences in between skins from various origins and facilitates to make process standard for all types of origins.

Secondary acidic bating stage enhances leather uniformity and homogenous characters. It can be used for acidic bating stage on pickle skins and wet-blues as well. Increases softness and elasticity of fur - suede wet - blue skins which are not very-well processed at bating. Grain quality, softness, touch, dyability and waterproofing features of leathers, especially for skins overdried due to extended stockpile period helps to reduce wrinkles.

Turenzym DP has extensive usage area in between ph: 4,0-6,0 at 20-35°C ideally. It can be added directly to drum.

Following bating stage, tanning process can be continued in the same bath after ph justification. According to desired article it should be used in appropriate amounts. Please kindly ask for technical assistance in case of necessity.

Packaging: 25 Kg. Kraft Bag

Storage: At least one year when stored properly according to international industrial norms and in a cool and moisture-free environment. When its open, it must be consumed within short time and kept its own package until finished. Above +25 °C, the storage life may be reduced by 3-6 months.

Safety Instruction: Please revert to related Safety Data Sheet.

TURTENS DEG

Core Points: Environmental friendly high performance degreasing agent can be used for soaking and degreasing processes of all kinds of skins.

Chemical Structure: Special degreasing agents with fatty alcohols polyglycol ether.

Specifications:

Appearance: Yellowish transparent liquid

Concentration (%): % 89 ±1 ISO 760

pH (1:10): 6,0 ± 1,0

Applications: Turtens DEG is used to emulsify the natural fat on the skin while supporting degreasing processes during soaking, liming, deliming, bating and wetting back processes.

Turtens DEG is biodegradable chemical and no need to use gas, white spirit or organic solvents containing chlorine such as trichloroethylene, dichloromethan etc. during degreasing process. With the usage of Turtens DEG excellent white and clean wool is achieved on double-face leather while creating clean wet blue and uniform dyeing capability. Beside, it helps to clean the pelt during bating. In order to increase the performance of Turtens DEG, it must be used either without water or with very less water. Extended degreasing process and longer washing time also increase the efficiency of degreasing process.

Turtens DEG has nonionic character therefore it works as free from isoelectric point concern.

Recommended usage of Turtens DEG: (adjust pH value 9,0-9,5)

- 0,3-1,0% for emulsifying natural fat (based on pelt weight)
- 0,1-1,5% for washing WB (based on shaved weight)
- 1,5 - 4,0% for degreasing process of sheep and goat skins (based on pelt weight)
- 3,0 - 7,0% for degreasing process of sheep and goat skins (based on pickle weight)

Packaging: 125 Kg. Plastic Drum

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. Below + 5 °C it is cloudy; around 0 °C viscosity increases. It turns back to its original aspect when heated to room temperature. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Follow instructions on product Safety Data Sheet.

TURTENS NAM

Core Points: Nonionic, high performance degreasing agent can be used for soaking and degreasing processes of all kinds of skins.

Chemical Structure: Special degreasing agents with fatty alcohols polyglycoether.

Specifications:

Appearance: Colorless, transparent, liquid

Concentration (%): %54±1

pH(1:10): 6,0 – 7,0

Charge: Non-ionic

Applications: Turtens NAM is used alone or in combination with alcohols and solvents in the degreasing process to degrease the natural - raw oil of sheep and goat leather. It supports the degreasing process in soaking, liming - deliming - bating, wetting back, processes. It provides emulsification of natural - raw oil.

With the usage of **Turtens NAM** excellent white and clean wool is achieved on double-face leather while creating clean wet blue and uniform dyeing capability. Beside, it helps to clean the pelt during bating.

Turtens NAM, it must be used either without water or with very less water. Extended degreasing process and longer washing time also increase the efficiency of degreasing process.

Turtens NAM has nonionic character therefore it works as free from isoelectric point concern.

Recommended usage of Turtens NAM:

- 0,3-1,0 % for emulsifying natural fat (based on pelt weight)
- 0,1-1,5 % for washing WB (based on shaved weight)
- 1,5-4,0 % for degreasing process of sheep and goat skins (based on pelt weight)
- 3,0- 8,0 % for degreasing process of sheep and goat skins (based on pickle weight)

Packaging: 120 Kg Plastic Drum

Storage: At least one year when stored properly according to international industrial norms and practice between 5° - 50°C original sealed packing. Below + 20 oC it is cloudy; around 0 oC viscosity increases. It turns back to its original aspect when heated to room temperature. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished

Safety Instruction: Follow instructions on product Safety Data Sheet

TURTENS WSH

Core Points: As dispersing agent of all other fatliquors while softening articles.

Chemical Structure: Fatty Alcohol sulphate derivatives

Specifications:

Appearance: Yellowish transparent liquid

Concentration (%): 30 % \pm 1,0

pH (1:10):6,0-8,0

Charge: Anionic

Applications: At pickling and chrome tanning stages, **Turtens WSH** is suitable as sole fatliquor at main fatliquoring or as part of fatliquor combinations which has electrolyte and chrome stability.

During fur process, it can be used for wool washing as well. It's advised to be used while degreasing washing of sheep and goat skins with 0,5-1 % .

Properties: **Turtens WSH** has dispersing effect on all other fatliquors while increasing the performance of penetration and spreading fatliquors all over the hides/skins homogeneously.

Tearing resistance and softness of the skins are improved with **Turtens WSH**. Easy to get uniform perfect dyeing.

Recommended usage of Turtens WSH:

- Fatliquoring: %0,5-2,0 (part of combination of solely usage)

Packaging: 120 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURTENS K

Core Points: Nonionic degreasing agent suitable for all kinds of leather.

Chemical Structure: Special degreasing content with fatty polyglycol ether.

Specifications:

Appearance: Transparent liquid

Concentration (%): 47,5±2,5 ISO 760

Applications: Turtens K emulsifies natural fat and used at soaking, liming, deliming, bating and wetting back stages to contribute degreasing process. White spirit, gas or chlorine solvents are not necessary with **Turtens K**.

Turtens K helps to remove natural fat from skins by emulsifying and provides good distribution of remaining fat over the skin. Does not make dry leather while cleaning removals and resulting perfectly cleaned hair for fur and wet- blue.

Turtens K needs no water or very less water to reach maximum efficiency during degreasing process. Longer time for degreasing and washing operations make more efficient degreasing process. Due to nonionic characteristics of **Turtens K**, it works free from isoelectric point.

Recommended usage of Turtens K: (adjust pH value 9,0-9,5)

- 0,3 - 0,7 % at soaking stage - based on pelt weight
- 0,05 - 0,5 % at liming stage - based on pelt weight
- 0,1 - 0,5 % at bating stage- based on pelt weight
- 1 - 10 %- at degreasing stage- based on pelt weight

Packaging: 120 Kg. Plastic Drum

Storage: Product advised to stored between 10-50 °C within their original packaging. Less then 10 °C, product can seem blurred and more viscous. Under room temperature, transparent look and original viscosity maintained. As package opened product should be consumed within short time and kept within original package.

Safety Instruction: Follow instructions on product Safety Data Sheet.

TURCALIM PE-S

Core Points: Liming agent with reducing amine based and anti- wrinkle features for all kinds of leathers.

Chemical Structure: Mixture of reducing substances and amines.

Specifications:

Appearance: Pink to purple clear liquid

pH (direct): $10,5 \pm 0,5$

Applications:

Turcalim PE-S has various effects on skin such as: removing hair easily and properly, avoiding swelling of grain extremely, creating homogeneous color of pelts, removing dirt effectively and emulsifying natural fat perfectly.

Turcalim PE-S is stable against acids, alkalines and electrolits which are commonly used in leather production. Suitable for usage at soaking without any dilution, directly.

Recommended usage of Turcalim PES:

- 0,1 – 0,7 % based on salted weight

Packaging: 120 kg Plastic Drum

Storage: At least one year when stored properly according to international industrial normss. When its open, it must be consumed within short time and kept its own package until finished.

Safety Instruction: Do not breathe. Follow instructions on product Safety Data Sheet.



**BACTERICIDE &
FUNGUCIDE**



SINTAN
C H E M I C A L S

TURCHEM FG-30S

Core Points: Biocide for the tanning industry.

Chemical Structure: It is a product based on 2-(thiocyanomethylthio)benzothiazole (TCMTB) in aromatic solvent.

Specifications:

Appearance: Dun-Reddish, Transparent Liquid

Water Solubility: Insoluble in water. Soluble in most polar organic

Density (20°C): 1,02-1,06 g/ml (ASTM-D/891-59.C)

Viscosity (20°C): Below 200 cPs (Brookfield RV sp2, 100 rpm)
(ASTM-D/1084 Meth.B)

pH (20°C) (sol. %10 DI.water): 4,5-7,0

Applications and Properties: TURCHEM FG 30S is a product based on 2-(thiocyanomethylthio)benzothiazole (TCMTB) in aromatic solvent, specially designed in order to avoid the microbiological development causing serious damages during the tanning process, such as fur-slip, collagen decrease, staining, etc. TURCHEM FG 30S is a broad-range microbiocide, especially effective against fungi responsible for moulds, whose growth and development is facilitated by factors such as pH, moisture and operating temperature, presence of nutritional substances, and others.

This product can be used in any of the different steps of the leather processing, such as soaking, pickling, tanning and re-tanning.

TURCHEM FG 30S is effective and stable with slightly acid and neutral pH. It slightly decreases its activity at pH values below 3,0 and above 8,5. The addition of TURCHEM FG 30S must be spaced of the incorporation in the basic agents processing, as the so extreme conditions of pH (10-10.5) can cause the TCMTB molecule degradation and the decrease of the preserving behaviour. Usage doses will depend on the contamination and the conditions of every particular case. Consequently, our recommendation is to carry out previous laboratory tests in order to verify the expected compatibility in the medium will be used the product, and to assess the use optimal dose. Nevertheless, general doses range between 0,02% and 0,3% on the leathers to be treated.

The product can be added as it is or diluted on-line through stainless steel or teflon pumps.

Storage: Avoid the contact with oxidizing agents, acids and alkaline substances. Do not use PVC, EPDM and PE. During storage keep containers tightly closed away from heat or ignition sources, preferably in well ventilated areas. Avoid temperatures below 5°C and above 40°C.

Under the recommended storage conditions, product shelf life is 12 months. As time goes by, slight precipitations may appear which do not affect the activity of the product.

Safety Instruction: Industrial product. It is recommended to look for safe and preventive data on the safety data sheet of the product before use. Take the appropriate precautions of industrial hygiene when handling the product.

TURCHEM FG-30W

Core Points: Biocide for the tanning industry.

Chemical Structure: It is a product based on 2-(thiocyanomethylthio)benzothiazole (TCMTB) in aqueous media.

Specifications:

Appearance: Cream-Opaque Liquid

Water Solubility: Dispersible in water

Density (20°C): 1,15 + 0,5 g/ mL (ASTM-D891-59.C)

Viscosity (20°C): 1200cPs maximum (Brookfield RV sp3, 20rpm)

pH (20°C) (disp. %5 DI.water): 5,0 ±2

Applications and Properties: TURCHEM FG 30W is a product based on 2-(thiocyanomethylthio)benzothiazole (TCMTB) in aqueous media, specially studied to avoid microbiological growth which causes important damages during tanning processes, as fur-slip, collagen decrease, staining on the leather, etc. TURCHEM FG 30W is a broad-spectrum microbiocide, especially against those fungus which cause mould, whose proliferation is increased by several factors such as pH, humidity and working temperature, existence of nutritional substances, and others.

TURCHEM FG 30W can be applied in different tanning processes as soaking, pickling, tanning and re-tanning

TURCHEM FG 30W is effective and stable in slightly acid and neutral pH values, showing a slight loss efficiency when pH is below 3,0 and over 8,5. The addition of TURCHEM FG 30W must be spaced when adding the baseficant agents processing, given that extreme pH conditions(10-10.5) can cause the TCMTB molecule degradation and the decrease of the preserving behaviour. Use dosages will depend on the existent contamination and the conditions of each particular case. Consequently, to carry out previous laboratory tests in order to verify the compatibility of the product in the media to be treated, as well as to assess the optimal dose, it is recommended. Nevertheless, dosage generally ranges from 0,02 to 0,3% on the hides to be treated in different processes. The product can be applied as it is, by means of a stainless steel or teflon pump.

Storage: Avoid the contact with oxidizing agents, acids and alkaline substances. Do not use PVC, EPDM and PE. During storage keep containers tightly closed away from heat or ignition sources, preferably in well ventilated areas. Avoid temperatures below 5°C and above 40°C.

Under the recommended storage conditions, product shelf life is 12 months. As time goes by, slight precipitations may appear which do not affect the activity of the product.

Safety Instruction: Industrial product. It is recommended to look for safe and preventive data on the safety data sheet of the product before use. Take the appropriate precautions of industrial hygiene when handling the product.

TURCHEM FG-50S

Core Points: Concentrated and emulsifier biocide for the tanning industry.

Chemical Structure: It is a product based on 2-(thiocyanomethylthio)benzothiazole (TCMTB) at a high concentration in organic medium and tensoactives.

Specifications:

Appearance: Dun-Reddish, Transparent Liquid

Water Solubility: Insoluble in water. Soluble in most polar organic

Density (20°C): 1,14 - 1,24 g/ml (ASTM-D/891-59.C)

Viscosity (20°C): Below 500 cPs (Brookfield RV sp2, 20 rpm)
(ASTM-D/1084 Meth.B)

pH (20°C) (sol. %10 DI.water): 4,6-6,6

Applications and Properties: It is specially designed to give stable aqueous dispersants with a high fixation grade of the active TCMTB in the leather. This high fixation capacity in the leather shows that this product is highly suitable to avoid the microbiological development causing serious damages during the tanning processes, such as fur-slip, collagen decrease, staining, etc.

TURCHEM FG 50S is a broad-range microbiocide, especially effective against fungi responsible for moulds, whose growth and development is facilitated by factors such as pH, moisture and operating temperature, presence of nutritional substances, and others.

This product can be applied at any of the different stages of leather processing, such as soaking, pickling, tanning and re-tanning.

TURCHEM FG 50S contains a high TCMTB concentration. For this reason, it is necessary to effectuate biocide dispersion in water (recommended temperature 20-30°C) in order to secure the correct application, to keeping it in agitation from its preparation until its posterior addition.

In case of the continuing agitation of the dispersion is not viable, we recommend not to surpass 3% concentration in the dispersion. A slight agitation before its addition would be enough for a correct incorporation. Dispersions of **TURCHEM FG 50S** are stable in hard or soft water conditions, being the factors of the temperature and the agitation the most important in the incorporation of the TCMTB in the dispersion.

TURCHEM FG 50S is effective and stable with slightly acid and neutral pH. It slightly decreases its activity at pH values below 3,0 and above 8,5. The addition of **TURCHEM FG 50S** must be spaced of the incorporation in the baseficant agents processing, as the so extreme pH conditions (10-10.5) can cause TCMTB molecule degradation and so preservation activity may decrease.

Usage doses will depend on processing and storage conditions, besides leathers' origin as well as the conditions of every particular case.

Consequently, our recommendation is to carry out previous laboratory tests in order to verify the expected compatibility in the medium will be used the product, and to assess the use optimal dose. Nevertheless, general doses range between 0,05% and 0,1% product on the total weight of leathers to be treated.

Storage: Avoid the contact with oxidizing agents, acids and alkaline substances. Do not use PVC, EPDM and PE. During storage keep containers tightly closed away from heat or ignition sources, preferably in well ventilated areas. Avoid temperatures below 5°C and above 40°C.

Under the recommended storage conditions, product shelf life is 12 months. As time goes by, slight precipitations may appear which do not affect the activity of the product.

Safety Instruction: Industrial product. It is recommended to look for safe and preventive data on the safety data sheet of the product before use. Take the appropriate precautions of industrial hygiene when handling the product.

TURCHEM SR-40

Core Point Turchem SR40 is a bactericide for the soaking of hides/skins.

Product Description: Sodium dithiocarbamate in aqueous solution 40%.

Specifications:

Appearance (18°C- 27°C) : Greenish Yellow – Liquid

Water Solubility : Miscible

% Sodium dimethyl dithiocarbamate : 39,0 – 41,0

pH (sol. %1 dem.water) : 10,0 – 12,0

Applications and Properties: Turchem SR40 prevents damage to raw hides during storage and in the soaking process caused by bacteria.

It is important to bear in mind that damage produced by microbes in the previous stages to the soaking are irreversible. Measures should be taken for the preservation of hides during transportation and salting.

During the soaking process, it prevents undesired situations like the progression of skin damage caused by incorrect salting and halophilic bacterial enzymes in raw hides which has red-heat and hair slippage/loss, bad odor caused by microorganisms.

The recommended dose of Turchem SR40 is between 0.05% - 0.30% calculated on hides weight or, 500 – 1000 g/m³ of soaking water depending on the ambient temperature and conditions of the hides. The product should be added to the water at the beginning of the process.

Recommended usage of Turchem SR40 (based on hide weight):

- Wet salted raw hides: min %0,15-0,20
- Air-sun dried raw hides: min %0,25-0,30
- Very dirty/bloody hides: min %0,30

Safety Measures: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.



**CHROME
SYNTAN**



SINTAN
C H E M I C A L S

SINTOGREEN CR 100

Core Points: Homogeneous synthesized chrome syntan for general purpose, strong equalizing power.

Chemical Structure: Homogeneous synthesized chrome syntan

Specifications:

Appearance: Green Powder

Total Solid (%): min. 96

Chrome % (Cr₂O₃): 13-16%

pH (1:10): 2,5-3,5

Light fastness: : Good

Applications: Sintogreen CR 100 is a chemically synthesized chrome syntan, it is not a simple powder mixture. Sintogreen CR 100 is used in re-tanning to equalize pelts from different batches in order to obtain equal color shades maintaining good affinity of leathers towards dye- stuffs and regulating astringency for tannins , syntans and polymers . Leathers treated with Sintogreen CR 100 become full with a pleasant handle and obtain a particularly fine and extremely smooth tight grain with reduced elasticity.

Recommended usage of Sintogreen CR 100:

- Chrome Re-tanning: 2-5 % on shaved weight before neutralization

Packaging: 16 Kg. Kraft bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5° - 50°C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved in- side its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

SINTOGREEN CR 200

Core Points: Chrome syntan for general purpose, strong equalizing power.

Chemical Structure: Chrome syntan.

Specifications:

Appearance: Green Powder

Total Solid (%): min. 95

Chrome % (Cr₂O₃): 11-13%

pH (1:10): 2,8-3,8

Light fastness: : Good

Applications: Sintogreen CR 200 is used in re-tanning to equalize pelts from different batches in order to obtain equal color shades maintaining good affinity of leathers towards dyestuffs and regulating astringency for tannins, syntans and polymers. Leathers treated with **Sintogreen CR 200** become full with a pleasant handle and obtain a particularly fine and extremely smooth tight grain with reduced elasticity.

Recommended usage of Sintogreen CR 200:

- Chrome Re-tanning: 2-5 % on shaved weight before neutralization

Packaging: 25 Kg. Kraft bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5° - 50°C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved in- side its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN ALU

Core Points : Syntan with chrome-aluminum content for suede, fur suede leathers where grain tightness , good buffing effect and clean and bright dyeing is required.

Product Description : Chromium-Aluminium Syntan.

Specifications:

Appearance: Green Powder

Total Solid (%): min. 95

Chrome % (Cr₂O₃): 9 – 11%

pH (1:10): 3,0 – 4,

Applications: Turtan ALU is suitable for use on all articles where grain tightness is required and especially on suede and fur-suede articles. Thanks to the tightness it gives to the leathers, it improves the sandability properties of the leathers and enables short nap to be obtained. Suede and split suede with Turtan ALU used in tanning or Cr retanning are dyed very clean and bright. Turtan ALU is suitable for leathers to be dyed in pastel tones as it provides a clean appearance on the surface. It also enables dark colors to be obtained when used before dye additions in top dyeing.

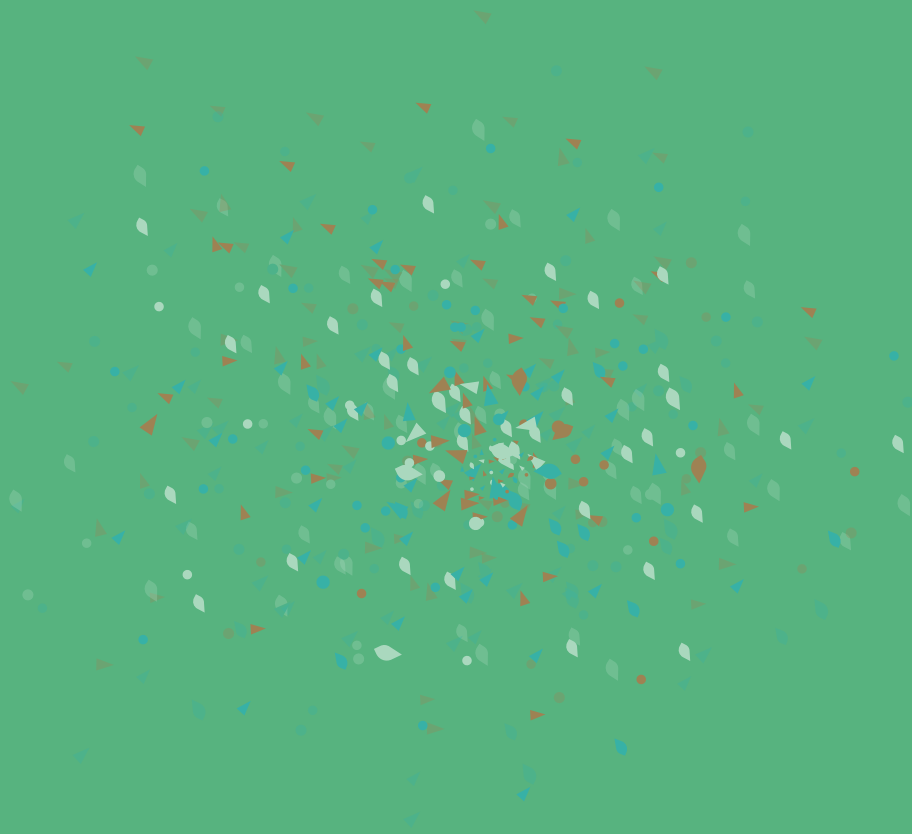
Turtan ALU gives leathers a pleasant handle and fullness. It helps to obtain a very smooth and tight grain, especially with thin and low elasticity.

Recommended usage of Turtan ALU :

- Tanning: 0.5 – 1.0 % on pelt weight
- Chrome Re-tanning: 2 – 5 % on shaved weight before neutralization



ACRYLIC
POLYMERS



SINTAN
CHEMICALS

TURACRYL EFS 300

Core Points: Acrylic polymer.

Chemical Structure: Medium - Soft Anionic Acrylic Polymer.

Specifications:

Appearance: Clear liquid transparent

Concentration (%): 30 ± 1

pH(1:10): 6,0-7,0

Light fastness: Good

Applications: Turacryl EFS 300 is a special acrylic resin retanning has short chain, which gives the leather good firmnes, while maintaining a certain softness. So can be used on items from footwear, leather goods, upholstery which gives the above characteristics, while maintaining a low specific weight.

Turacryl EFS 300 used in the neutralization bath is obtained of the skins very compact over the entire surface, after neutralization used in the bath retanning effectgets more rounded and snappy, used after the fatliquor you get a firm gran.

Turacryl EFS 300 by excellent results of uniformity of the dye, very visible in the head, on the wrinkles, which can mask the lower grain, helps the penetration of dyes and retanning, and can be used to waterproof articles as it is completely free from sodium salts.

Turacryl EFS 300 it can be used for the production of pastel colors and whites, as it has a good resistance to light.

For best results it is recommended to dry the skin to dry-vacuum. The product is not stable with chrome.

Packaging: 125 Kg. PE Openhead Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURACRYL EFS 400

Core Points: Acrylic polymer with glycerine.

Chemical Structure: Anionic Acrylic Polymer.

Specifications:

Appearance: Light brown liquid

Concentration (%): 38-40

pH(1:10): 6,0-7,0

Light fastness: Good

Applications: Turacryl EFS 400 is an acrylic based retanning agent that gives the leather full, rubbery effects and fine and tight grain.

When Turacryl EFS 400 is used in vegetable and chrome retanned shoe upper articles, it gives softness and elasticity while keeping the fullness of the leather.

Turacryl EFS 400 can be used during and after neutralization. When used after fatliquoring, an excellent bath consumption is achieved.

Turacryl EFS 400 is recommended to use vacuum drying to obtain the best results. The product is not stable with chrome.

Packaging: 125 Kg. PE Openhead Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURACRYL SML

Core Points: Styrene Maleic Polymer.

Chemical Structure: Anionic styrene maleic copolymer.

Specifications:

Appearance: Slightly Yellow Transparent Viscous Liquid

Concentration (%): $16,0 \pm 1 \%$

pH(1:10): 7,5-8,5

Applications: Turacryl SML is a styrene maleic based retanning agent creates uniform fullness all over the skin while giving excellent grain firmness. It is perfect for especially shoe upper leathers made of chrome or vegetal tanned.

Turacryl SML is advised to be used for dry milled articles in which uniform smoothness and softness needs to be obtained.

Turacryl SML is also used at the beginning of retanning process to make smooth and flat grain. It helps fatliquors inside the drum to be absorbed fully by the leather so that skin becomes soft, full and rubbery handle. It is recommended to use vacuum drying to obtain the best results. Product is not stable acidic medium. Requires a drumming about 30 minutes to get good penetration.

Recommended usage of Turacryl SML:

- Re-tanning: 1-3 % (on shaved weight)

Packaging: 125 Kg. PE Openhead Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURACRYL STM

Core Points: Styrene Maleic polymer.

Chemical Structure: Anionic styrene maleic copolymer.

Specifications:

Appearance: Slightly yellow transparent viscous liquid

Concentration (%): $16,0 \pm 1$

pH(1:10): 7,5-8,5

Applications: Turacryl STM is a tanning agent creates uniform fullness all over the skin while giving excellent grain firmness. It is perfect for especially shoeupper leathers made of chrome or vegetal tanned.

Turacryl STM is advised to be used for milled items in which uniform smoothness and softness needs to be obtained.

Turacryl STM is also used at the beginning of retanning process to make smooth and flat grain. It helps fatliquors inside the drum to be absorbed fully by the skin so that skin becomes soft, full and rubbery handle.

It is recommended to use vacuum drying to obtain the best results.

Product is not stable acidic medium. Requires a drumming about 30 minutes to get good penetration.

Recommended usage of Turacryl STM:

- Re-tanning: 1-3 % (on shaved weight)

Packaging: 125 Kg. PE Openhead Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURACRYL BIO CAU

Core Points: Exceptional fullness and tightness copolymer.

Chemical Structure: Amphoteric acrylic-melamine copolymer.

Specifications:

Appearance: Slightly yellow transparent viscous liquid

Concentration (%): 45,0 ± 2

pH(1:10): 4,0-6,0

Light fastness: Excellent

Applications: Turacryl BIO-CAU can be used on all types of leather, for exceptional fullness of the body and firmness of the grain.

Turacryl BIO-CAU is stable for chrome. At chrome tanning or retanning, it can be used before adding chrome or mineral salts when bath pH is over 3.5. When Turacryl BIO-CAU is added to the drum, minimum 30 min must be waited in order to continue to tanning or chrome tanning. Its compatible with vegetable extracts and synthetic tanning materials. No negative effect on acid dyeing.

Turacryl BIO-CAU improves the chrome distribution all over the skin, binds the fibers of the skin, increases the fullness while giving very fine grain.s

Turacryl BIO-CAU can be applied in the retanning bath after adding 0,8-1,0 % acid. When it is used at this stage, tightness of the grain increases.

Recommended usage of Turacryl BIO-CAU:

- Cr Retanning: 1-3 % (based on shaved weight)
 - 150 % Water
 - 0,5 % Turon SCS - 10'
 - 2,5 % Turacryl BIO-CAU - 40'
 - 4,0 & Sintogreen CR100 - 60'
 - 1,5 % Turtan P780 - 60' Overnight
 - Morning -Drain-wash-neutralization
- Fatliquoring: %0,5-2 (based on shaved weight)

In fatliquoring bath

- % 0,8 Formic Acid - 20'
- % 0,5-2 Turacryl BIO-CAU - 40'
- % 1,0 Formic Acid - 30'

Packaging: 125 Kg. PE Openhead Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURESIN AA 42

Core Points: Acrylic polymer with glycerine

Chemical Structure: Anionic acrylic polymer.

Specifications:

Appearance: Light brown liquid

Concentration (%): 38-40

pH(10): 6,0-7,0

Light fastness: Good

Applications: Turesin AA 42 is an acrylic based retanning agent that gives the leather full, rubbery effects and fine and tight grain. When Turesin AA 42 is used in vegetable and chrome retanned shoe upper articles, it gives softness and elasticity while keeping the fullness of the leather.

Turesin AA 42 can be used during and after neutralization. When used after fatliquoring, an excellent bath consumption is achieved.

It is recommended to use vacuum drying to obtain the best results. The product is not stable with chrome.

Packaging: 125 Kg. PE Openhead Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Please revert to relevant Safety Data Sheet.



SYNTANS



SINTAN
C H E M I C A L S

TURTAN P 015

Core Points: Replacement syntan with good tanning properties and strong pigmentation effect.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Ivory to Yellowish Powder

Total Solid (%): min. 95

pH(1:10): 2,5-4,0

Light fastness: Good

Applications: Turtan P 015 is a versatile high concentrated syntan used either as a tanning agent for chrome free leathers or as replacement syntan for re-tanning where alone is capable to produce off-white or pastel shades articles. It promotes high pigmentation effect on wet blue giving a tight well structured crust with a fine, tight and smooth grain with reduced elasticity and off-white colour. In semi-chrome articles promotes a pale colour and cleaner shades maintaining fullness and roundness.

Turtan P 015 is used as bleaching agent for sole leather production and in all vegetable article as pre - or post - treatment. It has good resistance to electrolytes and could be combined with mineral salts.

Turtan P 015 performs good in corrected grain, nubuck and embossed articles, due to very good response to buffing and embossing retention

Recommended usage of Turtan P 015:

- Wet - white tanning : 3-8% on pelt weight combined with other syntans
- Full veg. tanning : 2-6% on pelt weight combined with vegetable extracts
- Re-tanning : 2-5% on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN P 100

Core Points: Replacement syntan with good tanning properties and strong pigmentation effect.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Ivory to Yellowish Powder

Total Solid (%): min. 95

pH(1:10): 3,0-4,0

Light fastness: Good

Applications: Turtan P 100 is a versatile syntan used either as a tanning agent for chrome free leathers or as replacement syntan for re-tanning where alone is capable to produce off-hite or pastel shades articles. It promotes high pigmentation effecton wet blue giving a tight well structured crust with a finetight and smooth grain with reduced elasticity and off-white colour. In semi-chrome articles promotes a pale colour and cleaner shades maintaining fullness and roundness. Turtan P 100 is used as bleaching agent for sole leather production and in all vegetable article as pre- or post- treatment. It has good resistance to electrolytes and could be combined with mineral salts.

Turtan P 100 performs good in corrected grain, nubuck and embossed articles due to very good response to buffing and embossing retention.

Recommended usage of Turtan P 100:

- Wet - white tanning : 3-8% on pelt weight combined with other syntans
- Full veg. tanning : 2-6% on pelt weight combined with vegetable extracts
- Re-tanning : 2-5% on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN P 105

Core Points: Re-tanning agent for white and pale colored leathers.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Ivory to Yellowish Powder

Total Solid (%): min. 95

pH(1:10): 3,5-5,5

Light fastness: Good

Applications: Turtan P 105 gives a very smooth and tight grain with pronounced white pigmentation. When used in retanning of wet-blue leathers Turtan P 105 promotes good fullness and tightness. Corrected grain articles result with short fibers and a nice nap ready for bright pastel shades. It is recommended for articles such as Suede and Nubuck and Splits. Turtan P 105 is also used in combination tannage with vegetable tannins, where it promotes good distribution, grain flatness and a pale crust color.

Recommended usage of Turtan P 105:

- Full veg. tanning : 2-6% on pelt weight
- Re-tanning : 2-6% on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN P 200

Core Points: General purpose high concentrated lightfast auxiliary syntan with systemic dispersing properties.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Ivory to Yellowish Powder

Total Solid (%): min. 95

pH(1:10): 6-7,5

Light fastness: Very Good

Applications: Turtan P 200 is a real versatile auxiliary syntan. Turtan P 200 is used to promote even fixation of chrome during retanning and to disperse vegetable tannins, syntans and polymers enhancing their fullness. Leather treated with Turtan P 200 results with even uniformity of handle all over the areas, its gentle systemic dispersing properties and reductive action toward astringency results in full leathers with a smoother grain never overloaded.

Turtan P 200 as mordant helps to achieve very dark shades when basic dyes are applied.

Recommended usage of Turtan P 200:

- Full veg. tanning : 2-4% on pelt weight
- In neutralization: 1-2 % on shaved weight
- Dyeing: 1-2 % on shaved weight as dispersing agent in combination with dyes

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN P 205

Core Points: General purpose lightfast auxiliary syntan with systemic dispersing properties.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Ivory to Yellow Powder

Total Solid (%): min. 95

pH(1:10): 6,0-8,0

Light fastness: Very Good

Applications: Turtan P 205 is a real versatile auxiliary syntan. Turtan P 205 is used to promote even fixation of chrome during chrome retanning. After or during neutralization to disperse vegetable tannins, syntans and polymers enhancing their fullness. Leather treated with Turtan P 205 results with even uniformity of handle all over the areas, its gentle systemic dispersing properties and reductive action toward astringency results in full leathers with a smoother grain never overloaded.

Turtan P 205 as mordant helps to achieve very dark shades when basic dyes are applied.

Recommended usage of Turtan P 205:

- Full veg. tanning : 2-4% on pelt weight
- In neutralization: 1-2 % on shaved weight
- Dyeing: 1-2 % on shaved weight as dispersing agent in combination with dyes

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN P 300

Core Points: Replacement syntan with good tanning capacity and soft character.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Ivory to Yellowish Powder

Total Solid (%): min. 95

pH(1:10): 3,5-4,5

Light fastness: Good

Applications: Turtan P 300 helps to produce an extreme full and soft leathers with light specificweight, this makes it the right product when manufacturing floaters, softy articles, garments and upholstery leathers. It has good tanning properties on chrome-free production and good heat resistance.

Advantages when applying Turtan P 300 are:

- Very good even softness through the entire leather.
- Fine and filled grain
- Fluffy, low density structure
- Low specific weight
- Regular even dry milling effect
- Clean and level shades.

Recommended usage of Turtan P 300:

- Wet white tanning : 15-25% on pelt weight
- Re-tanning: 2-10 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN P 400

Core Points: Replacement syntan with soft temper.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Ivory to Yellowish Powder

Total Solid (%): min. 95

pH(1:10): 3,5-4,5

Light fastness: Very Good

Applications: Turtan P 400 is a replacement syntan that gives good fullness, softness and white pigmentation. It gives leathers with extremely finegrain and round silky characteristic touch. Leathers processed with **Turtan P 400** shows an even milling pattern and rubber-like body. All these properties make **Turtan P 400** an ideal syntan for all kinds of soft articles such as sheep garment, upholstery and milled shoe uppers. **Turtan P 400** is also recommended for nubuck and goat suede articles as it offers very nice and even short silky nap after buffing, with a clean bright shade reactivity.

Recommended usage of Turtan P 400:

- Vegetable tanning: 3-6 % on pelt weight
- Re-tanning: 2-5 % on shaved weight
- Nubuck and Suede Crust : 6-10 % on wet blue weight

Packaging: 20 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN P 710

Core Points: Retanning agent for general purposes to improve grain tightness and fullness.

Chemical Structure: Phenol sulphone derivative with neutral organic additions.

Specifications:

Appearance: Beige to Brown Powder

Total Solid (%): min. 95

pH(1:10): 3,5-5,5

Light fastness: Good

Applications: Turtan P 710 is a real versatile syntan. Leathers retanned with Turtan P 710 have a tight grain with medium softness and fullness. Turtan P 710 has a positive effect against shrinking of the grain when leathers are strongly retanned with vegetable tannins. Turtan P 710 helps to lower the astringency of the vegetable tannins which results in a relaxed and flat grain. This is especially needed for garment leathers produced from hides and sheep skins.

Turtan P 710 is not advised to be used for pastel and brilliant shades.

Recommended usage of Turtan P 710:

- Retanning of Upper Leathers: 3-6 % on shaved weight
- Retanning of Garment Leathers : 2-4 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN P 780

Core Points: Auxiliary syntan with buffered neutralizing power and good dye leveling.

Chemical Structure: Carboxylic buffering salts and phenol sulphone derivatives.

Specifications:

Appearance: Ivory to Yellowish Powder

Total Solid (%): min. 95

pH(1:10): 6,0-7,0

Light fastness: Good

Applications: Turtan P 780 is a combination of synthetic agents and organic buffering salts. Turtan P 780 ensures a mild and thorough neutralization of wet blue leathers without the risk of loose grain. Its' buffering action neutralizes homogeneously the wet blue and ensures a fast and even distribution of retanning, dyeing and fatting substances which results in a clean evenly distributed re-tannage with fine, elastic never overloaded grain. Turtan P 780 can be easily combined with classic neutralizing chemicals, such as sodium formate and sodium bicarbonate to obtain higher pH values in the wet blue.

Recommended usage of Turtan P 780:

- Neutralization: 1-4 % on shaved weight
- Chrome Re-tanning: 1-2 % on shaved weight
- Dyeing: 0,5-2 % on shaved weight (as dispersing agent in combination with dyes)

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN P 900

Core Points: Replacement syntan with good tanning properties and strong pigmentation effect.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Ivory to Yellowish Powder

Total Solid (%): min. 95

pH(1:10): 2,5-4,0

Light fastness: Good

Applications: Turtan P 900 is a phenolic based syntan used either as a tanning agent for chrome free leathers or as replacement syntan for re-tanning where alone is capable to produce off-white or pastel shades articles. It provides a good pigmentation effect on chromed leathers. Turtan P 900 gives leather perfect - fine pore and flat grain. Turtan P 900 has fullness, medium softness and roundness effects. Additionally it has good dry milling and heat resistant properties.

Electrolyte stability of Turtan P 900 is good and it could be combined with mineral salts. In semi-chrome articles promotes a pale colour and cleaner shades maintaining fullness and roundness. Turtan P 900 is used with all vegetable and synthetic tanning agent and is used as bleaching agent for in all vegetable article as pre- or post- treatment.

Turtan P 900 has a positive effects on the buffing and embossing properties of the leather.

Recommended usage of Turtan P 900:

- Wet-whitetanning: 5 – 10 % on pelt weight combined with other syntans
- Full veg. tanning: 2-6 % on pelt weight combined with vegetable extracts
- Re-tanning: 2-5 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN P 915

Core Points: Replacement syntan with good tanning properties and strong pigmentation effect.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Ivory to Yellowish Powder

Total Solid (%): min. 95

pH(1:10): 2,5-4,0

Light fastness: Good

Applications: Turtan P 915 is a high concentrated syntan used either as a tanning agent for chrome free leathers or as replacement syntan for re-tanning where alone is capable to produce off-white or pastel shades articles. It provides a good pigmentation effect on chromed leathers. Turtan P 915 gives leather perfect - fine pore and flat grain. Turtan P 915 has fullness, medium softness and roundness effects. Additionally it has perfect dry milling and good heat resistant properties. Electrolyte stability of Turtan P 915 is good and it could be combined with mineral salts. In semi-chrome articles promotes a pale colour and cleaner shades maintaining fullness and roundness. Turtan P 915 is used with all vegetable and synthetic tanning agent and is used as bleaching agent for in all vegetable article as pre- or post- treatment.

Turtan P 915 has a positive effects on the buffing and embossing properties of the leather.

Recommended usage of Turtan P 915:

- Wet-whitetanning: 15-20% on pelt weight-alone
3-8 % on pelt weight combined with other syntans
- Full veg. tanning: 2-6 % on pelt weight combined with vegetable extracts
- Re-tanning: 2-5 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN S 015

Core Points: High concentrated versatile replacement syntan for lightfast leather production with strong tanning action. Very smooth and tight grain. “Chromfree” tanning agent.

Chemical Structure: Diphenyl Sulphone Derivative

Specifications:

Appearance: Ivory to Light Beige Powder

Total Solid (%): min. 95

pH(1:10): 3,5-4,5

Light fastness: Very Good

Applications: Turtan S 015 is a high concentrated replacement syntan to manufacture high light fast “white” leathers. Turtan S 015 is used both in tanning and re-tanning. As a sole tanning agent is capable to achieve high thermal resistant leathers, dense structured with very fine smooth surface. Turtan S 015 is electrolyte stable and is normally employed in Zirconium combined tanning for reptile white leathers.

Recommended usage of Turtan S 015:

- Wet-white tanning: 15-20 % on pelt weight
- Wet-blue re-tanning: 5-10 % on shaved weight
- Vegetable re-tanning: 4-5 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN S 100

Core Points: Disulphone based versatile replacement syntan for lightfast leather production. Very smooth and tight grain. “Chromfree” white tanning agent.

Chemical Structure: Diphenyl Sulphone Derivative

Specifications:

Appearance: Ivory Powder

Total Solid (%): min. 95

pH(1:10): 3,5-4,5

Light fastness: Very Good

Applications: Turtan S 100 is a high concentrated replacement syntan to manufacture high light fast “white” leathers. Turtan S 100 is used both in tanning and re-tanning. As a sole tanning agent is capable to achieve high thermal resistant leathers, dense structured with very fine smooth surface. Turtan S 100 is electrolyte stable and is normally employed in Zirconium combined tanning for reptile white leathers.

Recommended usage of Turtan S 100:

- Wet-white tanning: 15-20 % on fleshed weight
- Wet-blue re-tanning: 5-10 % on shaved weight
- Vegetable re-tanning: 4-5 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN S 200

Core Points: Phenol Disulphone based versatile replacement syntan for tanning and re-tanning white leathers with mellow temper and bleached surface.

Chemical Structure: Phenol Disulphone condensation product.

Specifications:

Appearance: Ivory to Light Beige Powder

Total Solid (%): min. 95

pH(1:10): 3,5-4,5

Light fastness: Very Good

Applications: Turtan S 200 is a high concentrated replacement syntan to manufacture high light fast “white” leathers. Turtan S 200 is used both in tanning and re-tanning. As a sole tanning agent is capable to achieve high thermal resistant leathers with mellow temper very finegrain and bleached surface. Turtan S 200 is electrolyte stable and is normally employed in Aluminum and/or Zirconium combined tanning for soft reptile white leathers.

Recommended usage of Turtan S 200:

- Wet-white tanning: 15-20 % on pelt weight
- Wet-blue re-tanning: 2-10 % on shaved weight
- Vegetable re-tanning: 4-5 % on shaved weight
- Floater or shrunken grain effect: 10-15 % (plus 2 % acid) on pelt weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN ES 400

Core Points: Versatile general purpose replacement syntan.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Light Brown Powder

Total Solid (%): min. 95

pH(1:10): 3,0-4,0

Light fastness: Good

Applications: Turtan ES 400 is really versatile and it is suitable over a range of leather types, has good buffing properties, it performs particularly well on all tight articles and semi-chrome. Turtan ES 400 has low astringency and gives leathers with a full and round touch, good fiberdensity and good grain tightness.

Turtan ES 400 is used in combination with nearly all other syntans and resins during retanning where it helps to disperse and distribute those equally in the pelt.

Turtan ES 400 is an important product for the manufacturing of full vegetable leathers where partially substitute vegetable extracts during the tannage. It helps to penetrate and distribute the extracts and leathers results with a nice pale color which is an important issue.

Leathers treated with Turtan ES 400 show :

- A fine grain
- Full and mellow throughout.
- Clean and level shades.

Recommended usage of Turtan ES 400:

- Vegetable tanning: 15-10 % on pelt weight
- Re-tanning: 2-8 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN X 400

Core Points: Diphenil sulphone based syntan with pronounced astringency and strong filling character.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Beige to Light Brown Powder

Total Solid (%): min. 95

pH(1:10): 2,5-3,5

Light fastness: Fairly Good

Applications: Turtan X 400 is a replacement syntan developed to produce tanning action with high filling effect on leathers similar to catechin derivatives but resulting in off-white pigmented leather with good light-fastness. Turtan X 400 applied on un-pickled pelt is capable to produce shrunken effect with shrink patterns of good uniformity. This effect can be varied from a fine pattern through to a medium/large millkorn depending on the syntan quantity, pelt thickness, drum velocity and pH. To direct the effect, usage of added formic/oxalic acid is recommended. Due to its bleaching and dispersing effect toward vegetable extracts, Turtan X 400 is recommended as pre-tanning and retanning agent for vegetable tanned leathers where it promotes fast dispersion and penetration and a good tan color with a tight, full feel.

Recommended usage of Turtan X 400:

- Shrunken grain: 8-15 % /+ 2-2% Formic/Oxalic Acid)
- Vegetable tanning: 4-8 % on pelt weight
- Re-tanning: 5-15 % on shaved weight

Packaging: 20 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN N 100

Core Points: Auxiliary syntan with high dispersing power.

Chemical Structure: Naphthalene Sulphone Derivatives.

Specifications:

Appearance: Beige to Brown Powder

Total Solid (%): min. 95

pH(1:10): 6,0-8,0

Light fastness: Medium Good

Applications: Turtan N 100 is a versatile auxiliary syntan, used in many different applications during the tanning and re-tanning processes. It evenly distributes syntans, polymers, vegetable extracts and anionic dyestuffs through the section of leather. Turtan N 100 promotes even fullness and maintain a firm and fine grain. The use of Turtan N 100 decreases the necessary time to achieve a full penetration of tannins and dyes. Turtan N 100 avoids product deposition on the grain.

Recommended usage of Turtan N 100:

- Full veg. tanning: 2-4 % on pelt weight
- Chrome Re-tanning: 0,5-1,5 % on shaved weight
- Re-tanning: 0,5-3 % on shaved weight
- Dyeing: 0,5-3 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN N 106

Core Points: Penetrating and dispersing auxiliary syntan.

Chemical Structure: Condensate naphthalene sulphonate.

Specifications:

Appearance: Beige to Brown Powder

Total Solid (%): min. 95

pH(1:10): 6,0-8,0

Light fastness: Medium Good

Applications: **Turtan N 106** is a versatile auxiliary syntan, used in many different applications during the tanning and re-tanning processes. It evenly distributes syntans, polymers, vegetable extracts and anionic dyestuffs thorough the section of leather, without extremely bleaching their shades. **Turtan N 106** promotes even fullness and maintain a firm and fine grain. The use of **Turtan N 106** decreases the necessary time to achieve a full penetration of tannins and dyes. **Turtan N 106** avoids product deposition on the grain.

Recommended usage of Turtan N 106:

- Full veg. tanning: 2-5 % on pelt weight (in each addition)
- Re-tanning: 1-3 % on shaved weight
- Dyeing: 1-3 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN COL

Core Points: Natural based earth friendly special retanning agent.

Chemical Structure: Collagen-biopolymer, mixture of organic matters.

Specifications:

Appearance: Dark Brown Liquid

Total Solid (%): 45 % ± 1,0

pH(1:10): 5,5-6,5

Applications: Turtan COL is a collagen based natural retanning chemical which is truly sustainable and recommended for all kinds of leather processes. Miraculously develops the physical features of leather including tearing resistance. Fullness, tightness and roundness effects increased while grain structure becomes flat and smoother. Fills all the loose parts of the skin, therefore yield of the leather enhanced. Helps to get short nap as it supports the buffing properties of suede and split suede. Uniform dyeing and dark shades are easy to get with Turtan COL.

Turtan COL has wide range of application field. Can be used during tanning and retanning processes of WB, metal free and WW articles. When its used at loose bovine skins, thicker and fuller body with extremely tight skins can be easy to so the thick cow WB after shaving can be obtained.

Turtan COL is advised to used for New Zealand, British origins which has risk to have double-grain in order to avoid such problems.

For formaldehyde-free articles, Turesin F1 has combination usage which brings impressive, results without increasing free formaldehyde level of the skin.

Recommended usage of Turtan COL:

- Tanning: 1-3 % on pelt weight
- Cr retanning: 2-4 % based on shaved weight
- Re-tanning: 2-4 % based on shaved weight
- Fatliquoring: 2-4 % based on shaved weight

Packaging: 125 kg. Plastic Drums.

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 15 °C, If affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in pumping. Stir before use.

Safety Instruction: Please revert to related to relevant Safety Data Sheet.

TURTAN PC 90

Core Points: Retanning agent for general purposes to improve grain tightness and fullness.

Chemical Structure: Phenol sulphone derivative with organic and mineral additions

Specifications:

Appearance: Beige to Slightly Brown Powder

Total Solid (%): min. 95

pH(1:10): 4,5-6,5

Light Fastness: Good

Applications: Turtan PC 90 is a real versatile syntan. It contains organic and mineral additions and is slightly soluble in water. Leathers retanned with Turtan PC 90 have a tight grain with medium softness, fullness and roundness. Turtan PC 90 has a positive effect against shrinking of the grain when leathers are strongly retanned with vegetable tannins. Turtan PC 90 helps to lower the astringency of the vegetable tannins which results in a relaxed and flat grain. This is especially needed for garment leathers produced from hides and sheep skins. Turtan PC 90 is not advised to be used for pastel shades and metal free articles.

Recommended usage of Turtan PC 90:

- Retanning of Upper Leathers: 3-6 % on shaved weight
- Retanning of Garment Leathers: 2-4 % on shaved weight

Packaging: 25 Kg. Kraft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5° - 50°C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved in- side its original packing until it is finished.

Safety Instruction: Please revert to related to relevant Safety Data Sheet.

TURTAN PW 600

Core Points: General purpose usage and pigmentation effect, lightfast white syntan.

Chemical Structure: Phenol sulphone derivatives.

Specifications:

Appearance: Ivory to Yellowish Powder

Total Solid (%): min. 95,0 %

pH(1:10): 3,0-4,0

Light Fastness: 4-5 (ISO 105 B02/GRADE 5)

Applications: Turtan PW 600 is a phenolic base auxiliary syntani used for bleaching effect on chrome leathers. It promotes pigmentation effect on wet blue, gives medium full and soft crust with fine, tight and smooth grain with reduced elasticity. While Turtan PW 600 gives bleaching effect to leather it helps to even uniformity of dyeing and it does not decrease dark colour dyeability effect of leather. Turtan PW 600 can be used with all syntans and vegetable tanning agents easily.

Recommended usage of Turtan PW 600:

- Re-tanning for bleaching: 4-10 % on shaved weight
- Wet-white tanning: 3-8 % on pelt weight combined with other syntans
- Full veg. tanning: 2-6 % on pelt weight combined with vegetable extracts

Packaging: 25 Kg. Kraft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5° - 50°C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved in- side its original packing until it is finished.

Safety Instruction: Please revert to related to relevant Safety Data Sheet.

TURTAN XO

Core Points: Versatile general purpose replacement syntan.

Chemical Structure: Phenol sulphone derivatives.

Specifications:

Appearance: Light Brown - Brown Powder

Total Solid (%): min. 95

pH(1:10): 3,0-4,5

Light Fastness: Good

Applications: Turtan XO is versatile economic syntan and it is suitable over a range of leather types, has good buffing properties, it performs particularly well on all tight articles and semi-chrome. Turtan XO has low astringency and gives leathers with a full touch, good fiber density and good grain tightness. Turtan XO is used in combination with nearly all other syntans and resins during retanning where it helps to disperse and distribute those equally in the pelt. Turtan XO is an important product for the manufacturing of full vegetable leathers where partially substitute vegetable extracts during the tannage. It helps to lower the astringency of the vegetable tannins which results in a relaxed and flat grain and leathers results with a nice pale color which is an important issue.

Leathers treated with Turtan XO show :

- A fine grain.
- Full and mellow throughout.
- Clean and level shades.

Recommended usage of Turtan XO:

- Vegetable tanning: 6-10 % on pelt weight
- Re-tanning: 2-10 % on shaved weight

Packaging: 25 Kg. Kraft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5° - 50°C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved in- side its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.



LIQUID
SYNTANS



SINTAN
CHEMICALS

TURTAN PL 100

Core Points: Replacement syntan with good tanning properties and strong pigmentation effect.

Chemical Structure: Phenol Sulphone Derivatives.

Specifications:

Appearance: Brown Liquid

Total Solid (%): 40-42%

pH(1:10): 3,0-4,0

Light fastness: Good

Applications: **Turtan PL 100** is a versatile liquid syntan used either as tanning agents for chrome free leathers or as replacement syntans for re-tanning where alone are capable to produce off-white or pastel shade articles. It promotes high pigmentation effect on wet blue giving a tight well structured crust with a fine, tight and smooth grain with reduced elasticity and off-white colour. In semi-chrome articles **Turtan PL 100** promotes a pale colour and cleaner shades maintaining fullness and roundness. **Turtan PL 100** is used as bleaching agent for sole leather production and in all vegetable articles as pre- or post- treatment. It has a good resistance to electrolytes and can be combined with mineral salts. **Turtan PL 100** performs good in corrected grain, nubuck and embossed articles , due to very good response to buffing and embossing retention.

Recommended usage of Turtan PL 100:

- Wet-white tanning: 6-16 % on pelt weight with other syntans (in each addition)
- Full veg. tanning: 4-12% on pelt weight with veg. extracts
- Re-tanning: 4-10% on shaved weight

Packaging: 120 Kg Plastic Drum/IBC 1000 Kg

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. Stir before use.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN PL 200

Core Points: General purpose lightfast auxiliary syntan with systemic dispersing properties.

Chemical Structure: Phenol sulphone derivatives.

Specifications:

Appearance: Reddish Brown Liquid

Total Solid (%): 40-42%

pH(1:10): 6,0-7,5

Light fastness: Very Good

Applications: **Turtan PL 200** is a real versatile auxiliary syntan. **Turtan PL 200** is used to promote even fixation of chrome during retanning and to disperse vegetable tannins, syntans and polymers enhancing their fullness. Leather treated with **Turtan PL 200** results with even uniformity of handle all over the areas, its gentle systemic dispersing properties and reductive action toward astringency results in full leathers with a smoother grain never overloaded. **Turtan PL 200** as mordant helps to achieve very dark shades when basic dyes are applied.

Recommended usage of Turtan PL 200:

- Full veg. dispersing: 3-6 % on pelt weight
- In neutralization: 1-3 % on shaved weight
- Dyeing: 1 – 3 % on shaved weight as dispersing agent in combination with dyes

Packaging: 120 Kg Plastic Drum/IBC 1000 Kg IBC

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. Stir before use.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN PL 300

Core Points: Replacement syntan with good tanning capacity and soft character.

Chemical Structure: Phenol sulphone derivatives.

Specifications:

Appearance: Dark Yellow-Light Red Viscous Liquid

Total Solid (%): 40-42%

pH(1:10): 3,50-4,50

Light fastness: Good

Applications: Turtan PL 300 helps to produce an extreme full and soft leathers with light specific weight, this makes it the right product when manufacturing floaters, softy articles, garments and upholstery leathers. It has good tanning properties on chrome-free production and good heat resistance.

Advantages when applying Turtan PL 300 are:

- Very good even softness through the entire leather.
- Fine and filled grain.
- Fluffy, low density structure.
- Low specific weight.
- Regular even dry milling effect.
- Clean and level shades.

Recommended usage of Turtan PL 300:

- Wet white tanning: 15-30 % on pelt weight
- Re-tanning: 2-12 % on shaved weight

Packaging: 120 Kg Plastic Drum/IBC 1000 Kg IBC

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. Stir before use.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN PL 400

Core Points: Replacement syntan with soft temper.

Chemical Structure: Phenol sulphone derivatives.

Specifications:

Appearance: Light Brown Thick Liquid

Total Solid (%): 40-42%

pH(1:10): 2,6-2,8

Light fastness: Very Good

Applications: Turtan PL 400 is a replacement syntan that gives good fullness, softness and white pigmentation. It gives leathers with extremely fine grain and round silky characteristic touch. Leathers processed with Turtan PL 400 shows an even milling pattern and rubber-like body. All these properties make Turtan PL 400 an ideal syntan for all kinds of soft articles such as sheep garment, upholstery and milled shoe uppers. Turtan PL 400 is also recommended for nubuck and goat suede articles as it offers very nice and even short silky nap after buffing, with a clean bright shade reactivity.

Recommended usage of Turtan PL 400:

- Vegetable tanning: 5-12 % on pelt weight
- Re-tanning: 3-10 % on shaved weight
- Nubuck and Suede Crust: 5-16 % on wet blue weight

Packaging: 120 Kg Plastic Drum/IBC 1000 Kg IBC

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. Stir before use.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN PL 900

Core Points: Replacement syntan with good tanning properties and strong pigmentation effect.

Chemical Structure: Phenol sulphone derivatives.

Specifications:

Appearance: Yellowish Viscous Liquid

Total Solid (%): 40-42%

pH(1:10): 2,5-4,0

Light fastness: Good

Applications: Turtan PL 900 is a liquid syntan used either as a tanning agent for chrome free leathers or as replacement syntan for re-tanning where alone is capable to produce off-white or pastel shades articles. It provides a good pigmentation effect on chromed leathers. Turtan PL 900 gives leather perfect-fine pore and flat grain. Turtan PL 900 has fullness, medium softness and roundness effects. Additionally it has perfect dry milling and good heat resistant properties.

Electrolyte stability of Turtan PL 900 is good and it could be use with mineral salts. In semi-chrome articles promotes a pale colour and cleaner shades maintaining fullness and roundness. Turtan PL 900 is used with all vegetable and synthetic tanning agent and is used as bleaching agent for in all vegetable article as pre- or post- treatment.

Turtan PL 900 has a possitive effects on the buffing and embossing properties of the leather.

Recommended usage of Turtan PL 900:

- Wet-white tanning: 15-30 % on pelt weight-alone
3-8 % on pelt weight combined with othersyntans
- Full veg. tanning: 2-6 % on pelt weight combined with vegetable extracts
- Re-tanning: 2-5 % on shaved weight

Packaging: 120 Kg Plastic Drum/IBC 1000 Kg IBC

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. Stir before use.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN PLW 600

Core Points: General purpose usage and pigmentation effect, lightfast white syntan.

Chemical Structure: Phenol sulphone derivatives.

Specifications:

Appearance: Light Yellowish Liquid

Total Solid (%): 40-42%

pH(1:10): 3,0-4,0

Light fastness: 4-5 (ISO 105 B02/GRADE 5)

Applications: **Turtan PLW 600** is a phenolic base auxiliary syntan, used for bleaching effect on chrome leathers. It promotes pigmentation effect on wet blue, gives medium full and soft crust with fine, tight and smooth grain with reduced elasticity. While **Turtan PLW 600** gives bleaching effect to leather it helps to even uniformity of dyeing and it does not decrease dark colour dyeability effect of leather. **Turtan PLW 600** can be used with all syntans and vegetable tanning agents easily.

Recommended usage of Turtan PLW 600:

- Re-tanning for bleaching: 4-15 % on shaved weight
- Wet-white tanning: 3-10 % on pelt weight combined with other syntans
- Full veg. tanning: : 3-8 % on pelt weight combined with vegetable extracts.

Packaging: 120 Kg Plastic Drum/IBC 1000 Kg IBC

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. Stir before use.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN SL 100

Core Points: Liquid versatile replacement syntan for lightfast leather production with strong tanning action. Very smooth and tight grain. “Chromfree” tanning agent.

Chemical Structure: Diphenyl sulphone derivative

Specifications:

Appearance: Brown Liquid

Total Solid (%): 40-42%

pH(1:10): 3,5-4,5

Light fastness: Very Good

Applications: Turtan SL 100 is a liquid replacement syntan to manufacture high light fast “white” leathers. Turtan SL 100 is used both in tanning and re-tanning. As a sole tanning agent is capable to achieve high thermal resistant leathers, dense structured with very fine smooth surface. Turtan SL 100 is electrolyte stable and is normally employed in Zirconium combined tanning for reptile white leathers.

Recommended usage of Turtan SL 100:

- Wet-white tanning: 15-30 % on pelt weight
- Wet-blue re-tanning: 5-15 % on shaved weight
- Vegetable re-tanning: : 4-7 % on shaved weight

Packaging: 120 Kg Plastic Drum/IBC 1000 Kg IBC

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. Stir before use.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURTAN SL 200

Core Points: Phenol Disulphone based versatile replacement syntan for tanning and re-tanning white leathers with mellow temper and bleached surface.

Chemical Structure: Phenol Disulphone condensation product.

Specifications:

Appearance: Brown Liquid

Total Solid (%): 40-42%

pH(1:10): 3,5-4,5

Light fastness: Very Good

Applications: Turtan SL 200 is a liquid replacement syntan to manufacture high light fast “white” leathers. Turtan SL 200 is used both in tanning and re-tanning. As a sole tanning agent is capable to achieve high thermal resistant leathers with mellow temper very fine grain and bleached surface. Turtan SL 200 is electrolyte stable and is normally employed in Aluminum and/or Zirconium combined tanning for soft reptile white leathers.

Recommended usage of Turtan SL 200:

- Wet-white tanning: 20-30 % on pelt weight
- Wet-blue re-tanning: 4-15 % on shaved weight
- Vegetable re-tanning: : 5-10 % on shaved weight
- Floater or shrunken grain effect: 20-30 % (plus 2 % acid) on pelt weight

Packaging: 120 Kg Plastic Drum/IBC 1000 Kg IBC

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. Stir before use.

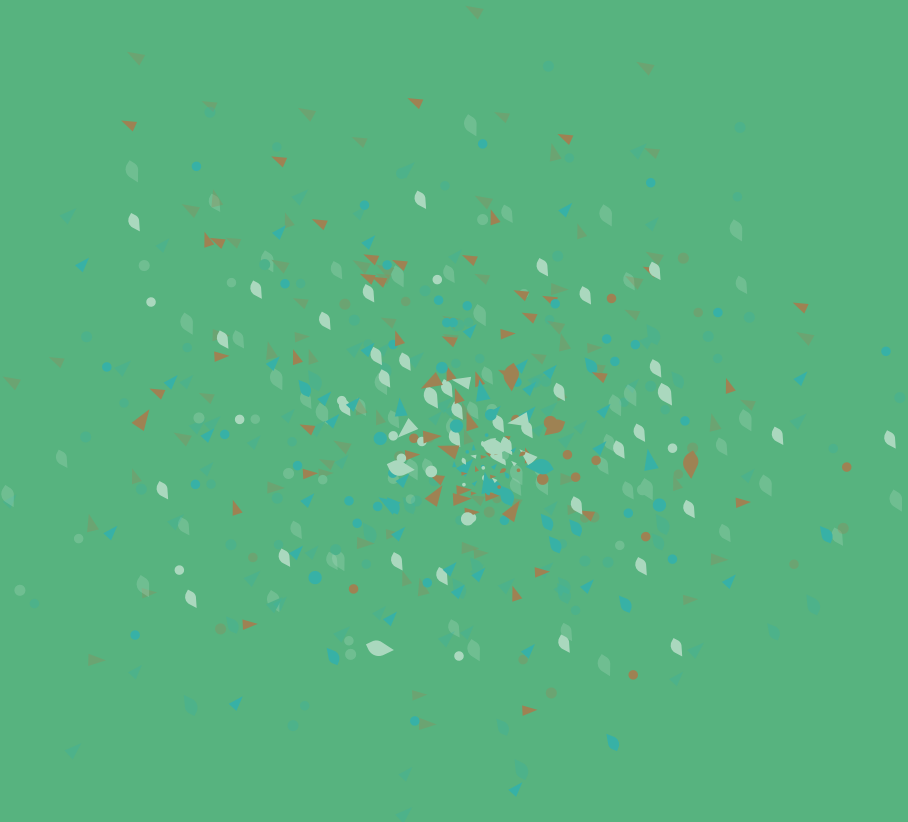
Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

A close-up photograph of leather textures. The top half shows a smooth, light brown leather surface. The bottom half shows a vibrant blue leather surface, which appears to be part of a shoe or boot, with some stitching visible. The lighting is soft, highlighting the grain and sheen of the leather.

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RESINS



SINTAN
CHEMICALS

TURESIN D 100

Core Points: High concentrated pure dicyandiamide resin with strong filling and tightening effect.

Chemical Structure: Dicyandiamide Polymer Resin.

Specifications:

Appearance: White Powder

Total Solid (%): min. 95

pH(1:10): 8,0-9,5

Light fastness: Excellent

Applications: Turesin D 100 is a versatile, concentrated pure dicyandiamide resin without fillers extenders, which is used in all kinds of leather. Its main purpose is to fill and tighten overall structures of the hides or skins. Turesin D 100 dissolves completely in water and it is sensible to pH environments lower than 3,7. It offers leathers with a tight grain, supports fine nap in buffing and helps embossing retention while maintaining mellow character due to its heat resistance. Due to Turesin D 100 low astringency the yield performance of the leather is not affected.

Recommended usage of Turesin D 100:

- Re-tanning: 2-5 % on shaved weight

Packaging: 20 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN D 105

Core Points: Specially formulated DCD based resin with strong filling effect.

Chemical Structure: Dicyandiamide Polymer Resin.

Specifications:

Appearance: White Powder

Total Solid (%): min. 95

pH(1:10): 7,5-9,5

Light fastness: Excellent

Applications: Turesin D 105 is a versatile pure dicyandiamide resin without fillers, which is used in all kinds of leathers. Its main purpose is to fill and tighten overall structures of the hides or skins. Turesin D 105 dissolves completely in water and it is sensible to pH environments lower than 3,7. It offers leathers with a tight grain, supports finenap in buffing and helps embossing retention while maintaining mellow character due to its heat resistance.

Due to Turesin D 105 low astringency the yield performance of the leather is not affected. The filling effect of Turesin D 105 can be enhanced by using it in combination with melamine resins like Turesin M serie.

Recommended usage of Turesin D 105:

- Re-tanning: 2-5 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN D 400

Core Points: High concentrated amino resin with low astringency and soft character.

Chemical Structure: Amino Resin Modified Copolymer.

Specifications:

Appearance: Light Beige to Yellow Powder

Total Solid (%): min. 95

pH(1:10): 8,0-9,0

Light fastness: Good

Applications: Turesin D 400 is based on a low astringent modified amino resin copolymer, with enhanced soft character and easily dispersible. The product is completely soluble and it doesn't content added fillers. It guarantee even uniformity of handle over a hide or skin, and its low astringency results in a smooth grain with a soft handle. The dye intensity and evenness are not affected and shades result particularly bright. It is suitable over a range of leather types and has good buffing properties, it performs particularly well on all dry milled articles and garments. Due to Turesin D 400 low astringency the yield performance of the leather is not affected.

Recommended usage of Turesin D 400:

- Re-tanning: 2-5 % on shaved weight

Packaging: 15 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN D 471

Core Points: Amino resins with low astringency and selective filling effect.

Chemical Structure: Amino Resin Modified Polymer.

Specifications:

Appearance: Beige Powder

Total Solid (%): min. 95

pH(1:10): 8,5-9,5

Light fastness: Good

Applications: Turesin D 471 is based on a combination of modified amino resins and fillers. The product is partially soluble. Due to its formulation, Turesin D 471 is selective in its filling properties with the tendency to fill the looser structures of the hides. It doesn't bleach dyes shades and improves the uniformity of handle over a hide or skin, its low astringency results in a smooth grain with a mellow handle.

It is suitable over a range of leather types and has good buffing properties, it performs particularly well on all soft articles. Due to Turesin D 471 low astringency the yield of the leather is not affected.

Recommended usage of Turesin D 471:

- Re-tanning: 2-5 % on shaved weight

Packaging: 20 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN D 711

Core Points: Dicyandiamide based resin with strong selective filing action.

Chemical Structure: Dicyandiamide Polymer Resin with Natural Fillers.

Specifications:

Appearance: Beige to Light Brown Powder

Total Solid (%): min. 95

pH(1:10): 9,0-10,0

Light fastness: Good

Applications: Turesin D 711 is a special product that combines dicyandiamide resin and natural fillers. **Turesin D 711** can be added directly to the float in powder form and it is compatible with syntans and natural tannins and doesn't bleach dye shades. For enhanced tightening action **Turesin D 711** can be used together with Turesin M serie. It is the ideal products for all tight upper articles.

Leathers treated with Turesin D 711 have the following characters:

- Good filling effect in the open (belly and flank) structures.
- Grain tightness.
- Improved buffing and embossing retention properties.

Recommended usage of Turesin D 711:

- Re-tanning: 2-5 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN D 755

Core Points: Economical Dicyandiamide based resin with strong selective filling action.

Chemical Structure: Dicyandiamide polymer resin with natural fillers.

Specifications:

Appearance: Beige to Light Brown Powder

Total Solid (%): min. 95

pH(1:10): 9,0-10,0

Light fastness: Good

Applications: TURESIN D 755 is a special product that combines dicyandiamide resin, and natural fillers. TURESIN D 755 can be added directly to the float in powder form and it is compatible with syntans and natural tannins, and doesn't bleach dye shades. For enhanced tightening action TURESIN D 755 can be used together with Turesin M serie. It is the ideal products for all tight upper articles.

Leathers treated with Turesin D 755 have the following characters:

- Good filling effect in the open (belly and flank) structures.
- Grain tightness.
- Improved buffing and embossing retention properties.

Recommended usage of Turesin D 755:

- Re-tanning: 3-6 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN D 765

Core Points: Economical dicyandiamide based resin with strong selective filling action.

Chemical Structure: Dicyandiamide polymer resin with natural and mineral fillers.

Specifications:

Appearance: Light Brown Powder

Total Solid (%): min. 94

pH(1:10): 9,0-10,0

Light fastness: Good

Applications: TURESIN D 765 is a special product that combines dicyandiamide resin and fillers. TURESIN D 765 is partially soluble in water. TURESIN D 765 can be added directly to the float in powder form and it is compatible with syntans and natural tannins, and doesn't bleach dye shades. For enhanced tightening action TURESIN D 765 can be used together with Turesin M serie. It is the ideal products for all tight upper articles. TURESIN D 765 promotes the buffing and embossing retention and homogeneous and intense dyeability properties of the leather. TURESIN D 765 has good filling effect in the open (belly and flank) structures. TURESIN D 765 improves the useable area of the leathers and leveling out the fullness differences.

Recommended usage of Turesin D 765:

- Re-tanning: 3-6 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN DC SUPER

Core Points: Extreme filling property for loose grain and belly parts of all types of leathers.

Chemical Structure: Mixture of natural and mineral based resins.

Specifications:

Appearance: Ivory Beige Powder

Total Solid (%): min. 95

pH(1:10): 6,0-8,0

Light fastness: Good

Applications: Turesin DC Super has unique effect on every kinds of looseness. It works very well on belly areas and grain looseness. Perfectly filling resin based syntan offers uniform and impressive fullness all over the leather. In the meantime, grain becomes more flat and tight. It is strongly advised for dry milling articles. It is slightly soluble in the water. As Turesin DC Super can fill the gaps in between the fibers of the leather, homogeneous fullness is obtained. This property of Turesin DC Super enhances the buffing and embossing capability of the leathers. It can be used in retanning process for all kinds of leather articles, alone or with syntans, vegetale tannins and retanning agents.

Recommended usage of Turesin DC SUPER:

- Re-tanning: 4-9 % based on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN DX

Core Points: Dicyandiamide resin with strong selective filling properties

Chemical Structure: Mixture of natural and mineral based fillers with dicyandiamide resins.

Specifications:

Appearance: Beige-Slightly Brown Powder

Total Solid (%): min. 95

pH(1:10): 6,0-8,0

Light fastness: Good

Applications: Turesin DX is special formulation of dcd resin with natural and mineral additives. It is slightly soluble in the water and can be added directly in to the drum. It is suitable to use with all other syntans, vegetable tannins and retanning chemicals.

Turesin DX enables deep shades of dyes while creating homogeneous color all over the leather. Main function is to remove looseness at belly and flank sides of hides/skins. Due to its grain tightness effect, it also affects buffing and embossing retention capacity in a positive way.

It is also advised to be used combined with Turesin M series in order to increase the compact feeling. It is perfect for upper leather articles where tightness is highly important.

Turesin DX is advised to be used for low free- formaldehyde leather articles but not advised to be used for metal free.

Recommended usage of Turesin DX:

- Neutralization: 2-4 % based on shaved weight
- Retanning: 2-9 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN D MAX

Core Points: Strong selective filling action for flank and belly sides of skin.

Chemical Structure: Dicyandiamide and melamine polymer resin.

Specifications:

Appearance: Beige to Light Brown Powder

Total Solid (%): min. 95

pH(1:10): 8,5-9,5

Light fastness: Good

Applications: Turesin D-MAX is low astringent and special product that combines dicyandiamide and melamine resin. Turesin D-MAX create fullness all over the skin while filling the belly sides perfectly. It doesn't bleach dye shades. It is the ideal products for all tight upper articles. It can be much more effective when it is used with Turtan X 400 or Turtan P 400. Turesin D-MAX is recommended also for dry milling articles. It should not be used pH below 3 and with mineral tannins.

Leathers treated with Turesin D-MAX gets full belly and flank areas, tight grain and smooth surface. Thanks to its perfect filling capability, buffing and embossing retention properties of the leathers improved.

Recommended usage of Turesin D MAX:

- Re-tanning: 4-9 % on shaved weight

Recommended usage of Turesin D MAX:

- %50 Water 25°C
- %2 Turacryl Bio-CAU - 30'
- %9 Turesin D-MAX
- %3 Turtan X 400
- %3 Mimosa
- %1,5 Turtan N 106
- % x Dyestuff -all together 60'-90'- continue with fatliquoring process.

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN F1

Core Points: Special retanning chemical to produce formaldehyde-free leathers.

Chemical Structure: Mixture of organic and mineral based retanning chemicals.

Specifications:

Appearance: Ivory - off white powder

Total Solid (%): min. 90

pH(1:10): 5,5-7,5

Light fastness: Good

Applications: Turesin F1 is a very special product for producing "formaldehyde free" leather articles. It is slightly soluble in the water and can be used solely or with vegetal tannins and acrylics as well in order to make formaldehyde -free leathers.

Turesin F1 enhances the fullness, roundness and tightness properties of the leather and fills loose areas including belly sides perfectly. It is advised to be used when more yield and better buffing properties are required, also supports the grain in terms of tightness and fullness. Homogeneous dyeing is easy to reach with **Turesin F1**.

Turesin F1 can be used directly in chrome, vegetal or combined retanning processes.

Recommended usage of Turesin F1:

- CR Retanning: 2-4 % based on shaved weight (before chrome)
- Neutralization: % 4-12 based on shaved weight
- Re-tanning: 2-4 % based on shaved weight (before fatliquors)

Packaging: 25 Kg. Kraft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5° - 50°C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Do not breath. Follow instructions on product Safety Data Sheet.

TURESIN DT

Core Points: Dicyandiamide resin with strong selective filling properties.

Chemical Structure: Mixture of natural and mineral based fillers with dicyandiamide resins.

Specifications:

Appearance: Beige- Light Brown Powder

Total Solid (%): min. 95

pH(1:10): 8,5-9,5

Light fastness: Good

Applications: Turesin DT is special formulation of DCD resin with complex natural and mineral additives. It is slightly soluble in the water and can be added directly in to the drum. It is suitable to use with all other syntans and retanning chemicals. Turesin DT enables deep shades of dyes while creating homogeneous color all over the leather. Main function is to remove looseness at belly and flank sides of hides/skins. Due to its grain tightness effect, it also affects buffing and embossing retention capacity in a positive way.

It is also advised to be used combined with Turesin M series in order to increase the compact feeling. It is perfect for upper leather articles where grain tightness is highly important.

Recommended usage of Turesin DT:

- Neutralization: % 2-4 based on shaved weight
- Re-tanning: 2-9 % based on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN M 100

Core Points: Concentrated Melamine modified copolymer with a full and soft character.

Chemical Structure: Melamine copolymer resin.

Specifications:

Appearance: Ivory powder

Total Solid (%): min. 95

pH(1:10): 8,0-9,5

Light fastness: Good

Applications: Turesin M 100 is a versatile resin based on a modified melamine copolymer with low astringency. The product is completely soluble and it doesn't contain added fillers. It guarantees even uniformity of handle over a hide or skin, and its low astringency results in a smooth grain with a soft handle. It is applied in nearly all kinds of leather where softness and fullness are required. Due to its anionic modified structure Turesin M 100 can be combined easily together with other syntans polymers and natural tannins.

Turesin M 100 has good heat resistance thus does not affect softness during mechanical operations. Turesin M 100 performs particularly well on all dry milled articles and garments where it helps to get a fine and uniform milling pattern. Do not apply under pH 3.

Turesin M 100 should not be applied together with mineral tanning agents.

Recommended usage of Turesin M 100:

- Re-tanning: 2-5 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN M 105

Core Points: Melamine based resin with strong filling effect.

Chemical Structure: Melamine copolymer resin.

Specifications:

Appearance: White powder

Total Solid (%): min. 95

pH(1:10): 8,0-9,5

Light fastness: Good

Applications: Turesin M 105 is a versatile resin based on a modified melamine copolymer with low astringency. The product is completely soluble and it doesn't contain added fillers. It guarantees even uniformity of handle over a hide or skin, and its low astringency results in a smooth grain with a soft handle it is applied in nearly all kinds of leather where softness and fullness are required. Due to its anionic modified structure Turesin M 105 can be combined easily together with other syntans polymers and natural tannins.

Turesin M 105 has good heat resistance thus does not affect softness during mechanical operations.

Turesin M 105 performs particularly well on all dry milled articles and garments where it helps to get a fine and uniform milling pattern. It gives a tight, fine and easy buffing grain therefore it is highly recommended for nubuck and suede leathers the filling effect will improve when used with dicyandiamide resins from Turesin D family. Do not apply under pH 3.

Turesin M 105 should not be applied together with mineral tanning agents.

Recommended usage of Turesin M 105:

- Neutralization: 2-4 % on shaved weight
- Re-tanning: 4-8 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN M 200

Core Points: Pure, white melamine polymer with high lightfast.

Chemical Structure: Melamine polymer.

Specifications:

Appearance: White powder

Total Solid (%): min. 95

pH(1:10): 8,0-9,5

Light fastness: Excellent

Applications: Turesin M 200 is a pure melamine resin. The product is completely soluble and does not contain added fillers. It guarantees even uniformity of handle over a hide or skin, its medium astringency results in a smooth grain with a fluffy/soft handle and it is applied in nearly all kinds of leather where fluffy fullness is required.

Turesin M 200 can be used in combination with all other anionic syntans, polymers and natural tannins. Due to its pure, white coloured structure and light-fastness, Turesin M 200 is also used in white lightfast leathers production. Turesin M 200 has good heat resistance thus does not affect softness during mechanical operations maintaining a good embossing retention.

Turesin M 200 performs well on all soft articles and garments. It has poor acid resistance so it is not to be applied under pH 3, in application together mineral tanning agents precipitation may occur.

Recommended usage of Turesin M 200:

- Re-tanning: 2-5 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN M 711

Core Points: Versatile melamine based resin.

Chemical Structure: Melamine resin containing organic and inorganic fillers.

Specifications:

Appearance: Beige powder

Total Solid (%): min. 95

pH(1:10): 6,0-8,0

Light fastness: Good

Applications: Turesin M 711 is a melamine resin especially formulated for a soft and tight selective filling action. Turesin M 711 promotes the buffing and embossing retention properties of the leather, it doesn't excessively bleach dyes shades, it improves the usable area of the leathers and leveling out the fullness differences. The tightening filling effect is enhanced when used in combination with dicyandiamide resins such as Turesin D family.

Turesin M 711 can combine easily with all kinds of retanning agents but is not stable under pH = 3 and should not to be used together with mineral tanning agents.

Recommended usage of Turesin M 711:

- Neutralization: 2-4 % on shaved weight
- Re-tanning: 2-5 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN M 755

Core Points: Versatile economic melamine based resin.

Chemical Structure: Melamine resin containing organic and inorganic fillers.

Specifications:

Appearance: Beige powder

Total Solid (%): min. 95

pH(1:10): 6,0-8,0

Light fastness: Good

Applications: TURESIN M 755 is an economical melamine resin especially formulated for a medium soft and good tight selective filling action. TURESIN M 755 promotes the buffing and embossing retention properties of the leather, it doesn't excessively bleach dyes shades, it improves the usable area of the leathers and leveling out the fullness differences. The tightening filling effect is enhanced when used in combination with dicyandiamide resins such as Turesin D family. TURESIN M 755 can combine easily with all kinds of retanning agents but is not stable under pH = 3 and should not to be used together with mineral tanning agents.

Recommended usage of Turesin M 755:

- Neutralization: 2-4 % on shaved weight
- Re-tanning: 2-6 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN M 765

Core Points: Versatile economic melamine based resin.

Chemical Structure: Melamine resin containing organic and mineral fillers.

Specifications:

Appearance: Light Brown Powder

Total Solid (%): min. 94

pH(1:10): 6,0-8,0

Light fastness: Good

Applications: Turesin M 765 is a special economical melamine based resin mixed product especially formulated for a medium soft and good tight selective filling action. Turesin M 765 is partially soluble in water. Turesin M 765 promotes the buffing and embossing retention and homogeneous and intense dyeability properties of the leather. It doesn't bleach dyes shades. Turesin M 765 improves the useable area of the leathers and leveling out the fullness differences. The tightening filling effect is enhanced when used in combination with dicyandiamide resins such as Turesin D family. Turesin M 765 can combine easily with all kinds of retanning agents.

Recommended usage of Turesin M 765:

- Neutralization: 2-4 % on shaved weight
- Re-tanning: 2-9 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN MEL

Core Points: Newest breakthrough version of melamine resin with extreme selective filling property.

Chemical Structure: Mixture of natural and mineral based fillers with melamine resin.

Specifications:

Appearance: Brown Beige Powder

Total Solid (%): min. 95

pH(1:10): 5,5-7,5

Light fastness: Good

Applications: Turesin MEL developed to make full body leather with softness. Meanwhile, grain becomes more tight and no loose area remains. It is slightly soluble in the water and can be added directly to drum in powder form. It gets along with all other retanning materials, vegetal extracts and syntans very well. As it supports the fibers all over the leather based on the requirement, thanks to its selective filling skills fullness in each and every point reaches to the same level. This also contributes to buffing and embossing capability of the leather positively while increasing the yield of the leather. Its effects are enhanced when used in combination with dicyandiamide resins such as Turesin D family.

Advantages of using Turesin MEL:

- Selective filling
- Better yield performance
- Perfect fullness, softness and tightness

Recommended usage of Turesin MEL:

- Neutralization: 2-4 % shaved weight
- Re-tanning: 2-9 % shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN W 701

Core Points: General purpose organic filler to impart even soft and round fullness with silky touch.

Chemical Structure: Organic proteins and filler mixture with dispersing additive.

Specifications:

Appearance: Ivory Powder

Total Solid (%): min. 90

pH(1:10): 6,0-8,0

Light fastness: Good

Applications: Turesin W 701 is a general purpose organic filler for the retannage of leathers. Leathers treated with Turesin W 701 show uniform tight handle, smooth grain and roundness with a silky touch and good buffing properties.

Turesin W 701 improves fullness and helps to fill the empty areas like bellies and flanks therefore it is highly recommended to improve the cutting yield value. It promotes better quality consistence between different wet blue stocks. Turesin W 701 can be used directly in chrome, vegetable or mix re-tanning. The best filling effect can be obtained offering the product immediately before fatliquoring process where we can obtain it's best penetration and physical- chemical up-tacking.

Recommended usage of Turesin W 701:

- Re-tanning: 1-4 % on shaved weight
- Fatliquoring: 2-4 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN ZF

Core Points: Special retanning chemical to produce formaldehyde-free leathers

Chemical Structure: Mixture of organic and mineral based retanning chemicals.

Specifications:

Appearance: Ivory-Light Beige Powder

Total Solid (%): min. 90

pH(1:10): 5,50-7,50

Light fastness: Good

Applications: Turesin ZF is a very special product for producing formaldehyde free leather articles. It is slightly soluble in the water and can be used solely or with vegetal tannins and acrylics as well in order to make formaldehyde free leathers.

Turesin ZF enhances the fullness, roundness and tightness properties of the leather and fills loose areas including belly sides perfectly. It is advised to be used when more yield and better buffing properties are required, also supports the grain in terms of tightness and fullness. Homogeneous dyeing is easy to reach with **Turesin ZF**.

Turesin ZF can be used directly in chrome, vegetal or combined retanning processes.

Recommended usage of Turesin ZF:

- Cr Retanning: 2 – 4 % based on shaved weight (before chrome)
- Retanning: 4 – 12 % based on shaved weight
- Fatliquoring: 2 – 4 % based on shaved weight (before fatliquors)

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5° - 50°C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Do not breath. Follow instructions on product Safety Data Sheet.

TURESIN MLF

Core Points: Melamine resin, suitable for the production of leather with low free formaldehyde content.

Chemical Structure: Mixture of natural and mineral based fillers with melamine resin.

Specifications:

Appearance: Ivory-Light Beige Powder

Total Solid (%): min. 90

pH(1:10): 5,50-7,50

Light fastness: Good

Applications: Turesin MLF provides a balanced and homogeneous feeling effect on the leather. Since Turesin MLF has moderate degree of astrigency, it is suitable for the production of almost any type of leather where a smooth grain with a soft and full filling effect is desired. Turesin MLF is partially soluble in water and is compatible with all other anionic sintans, polymers and vegetale tannins. It can be added directly to the floate in powder form. It improves the usable area of the leather by balancing the differences in fullness in the skin/hide. In this way, it makes a positive contribution to the ability to buffing and print embossing properties of the leather. It is also advised to be used combined with Turesin D series in order to increase the compact feeling. In addition, Turesin MLF promotes homogeneous and saturated dyeing of the leather.

Since Turesin MLF has low acid resistance, it should not be used below pH 3. Turesin MLF, when used with acrylic polymers or vegetale tannins, allows the creation of leather with very low free formaldehyde value.

Recommended usage of Turesin MLF:

- Neutralisation: 2-4 % shaved weight
- Retanning: 2-9 % shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN DLF

Core Points: Dicyandiamide resin with selective filling properties and suitable for leather production with low free formaldehyde content.

Chemical Structure: Mixture of natural and mineral based fillers with dicyandiamide resins.

Specifications:

Appearance: Ivory-Light Beige Powder

Total Solid (%): min. 90

pH(1:10): 5,50-7,50

Light fastness: Good

Applications: Turesin DLF is special formulation of dcd based resin with complex natural and mineral additives. It is slightly soluble in the water and can be added directly in to the drum. It is suitable to use with all other syntans, vegetale tannins and retanning chemicals.

Turesin DLF enables deep shades of dyes while creating homogeneous color all over the leather. Turesin DLF enhances the fullness, roundness and tightness properties of the leather and fills loose areas including belly sides perfectly. Due to its grain tightness effect, it also affects buffing and embossing retention capacity in a positive way.

It is also advised to be used combined with Turesin M series in order to increase the compact feeling. It is perfect for upper leather articles where tightness is highly important.

Recommended usage of Turesin DLF:

- Neutralisation: 2-4 % based on shaved weight
- Retanning: 2-9 % based on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.

TURESIN DA 21

Core Points: Dicyandiamide based resin with strong selective filling action.

Chemical Structure: Dicyandiamide polymer resin with mineral and organic fillers.

Specifications:

Appearance: Ivory Powder

Total Solid (%): min. 95

pH(1:10): 6,0-8,0

Light fastness: Good

Applications: Turesin DA 21 is a special product that combines dicyandiamide resin, mineral and organic fillers. Turesin DA 21 can be added directly to the float in powder form and it is compatible with syntans and natural tannins and doesn't bleach dye shades. For enhanced tightening action Turesin DA 21 can be used together with Turesin M serie. It is the ideal products for all tight and flat upper articles.

Turesin DA 21 is advised to be used for "low free- formaldehyde" leather articles but not advised to be used for "metal free".

Leathers treated with Turesin DA 21 have the following characters:

- Good filling effect in the open (belly and flank) structures.
- Flat and tight grain.
- Homogeneous and dark shade dyeability
- Improved buffing and embossing retention properties.

Recommended usage of Turesin DA 21:

- Retanning: 2-5 % on shaved weight

Packaging: 25 Kg. Craft Bags

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.



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TURESIN ML 315

Core Points: Melamine resin without formaldehyde content.

Chemical Structure: Melamine resin

Specifications:

Appearance: Reddish Brown Liquid

Total Solid (%): 35,00 ±1

pH(1:10): 5,5-7,5

Applications: Turesin ML315 is a formaldehyde free resin that has soft retanning properties. It is a concentrated pure melamine polymer without fillers- extenders. Turesin ML315 has low astringent, it is medium-heat resistant. Turesin ML 315 gives the leather smooth and flat grain and medium fullness. It can be used for almost every type of leather where fullness and softness are desired. Turesin ML 315 can be used with other anionic syntans, polymers and natural tannins. Since Turesin ML 315 does not contain formaldehyde, it is suitable for the production of formaldehyde-free leather.

Turesin ML 315 does not adversely affect the softness during mechanical processes due to its well heat resistance and maintains its good print embossing property.

While Turesin ML 315 performs well on all soft articles and garments, it is also suitable for nappa style articles where fullness and roundness are required.

Since Turesin ML 315 has low acid resistance, it should not be used below pH =3 and it causes precipitation when used with mineral tanning agents.

Recommended usage of Turesin ML 315:

- Retanning: 4-10 % on shaved weight

Packaging: 25 Kg. Craft Bags

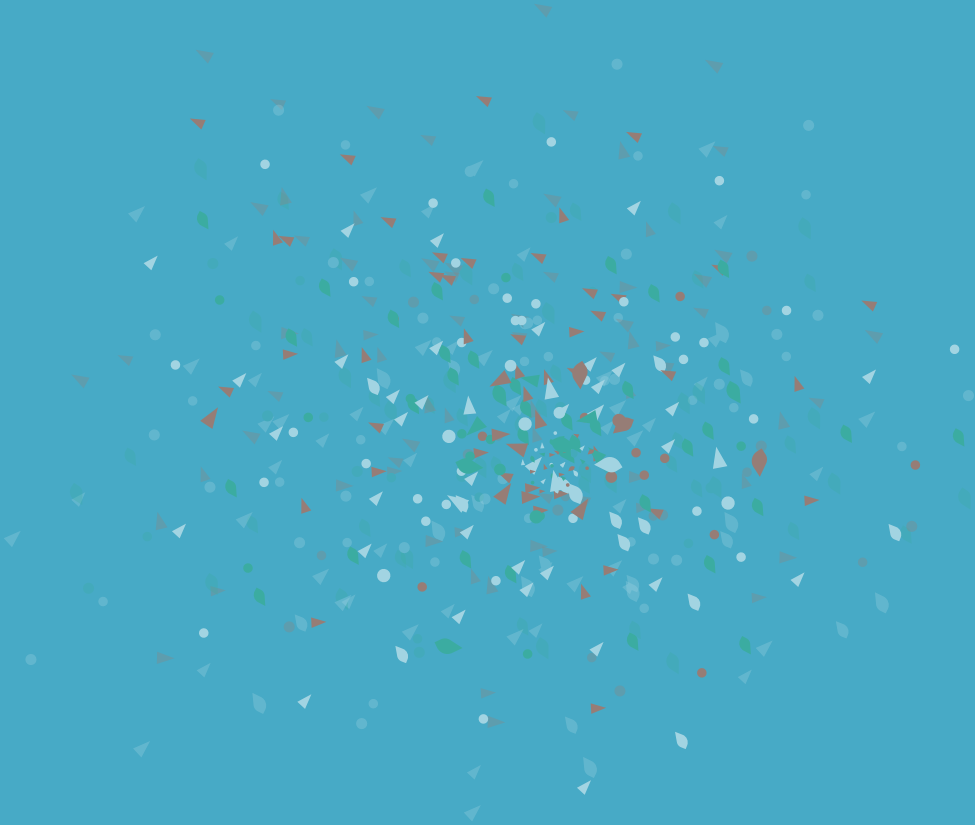
Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: This product is dangerous if inhaled. Please revert to relevant Safety Data Sheet.



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FATLIQUORS



SINTAN
C H E M I C A L S

TURON FER

Core Points: Phosphoester based fatliquor with high penetration power for all kinds of leather production.

Chemical Structure: Phosphoester based fatliquor.

Specifications:

Appearance: Light yellow to yellow transparent liquid

Concentration (%): 47,5 % \pm 2,5 (ISO 760)

pH(1:10): 6,5– 7,5

Charge: Anionic

Light fastness: 4-5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turon FER is non-oxidized medium soft fatliquor with high penetration power and stability. It can be used for sheep and goat skins, especially perfect for all garments and light weight nappa articles. It is advised to use as combination with other fatliquors for bovine.

Properties: Turon FER's hard water, electrolyte and chrome stabilities are better than other fatliquors. It has good light fastness therefore it is suitable for production of white leathers and light colors from wet-blue. With the help Turon FER, light-weight, full leathers with slightly dry touch can be obtained. It gives uniformly milled effect while distributing dyes homogeneously over the surface and prevents visibility of grain defects. It has good buffing properties so skin fibers get saturated. During fatliquoring process, it helps other fatliquors penetration thoroughly as a result no fatliquor remains in the flotte.

Recommended usage of Turon FER:

- Pickling and chrome tanning: 1-4 % on pelt weight
- Retanning: 1-4 % on shaved weight
- Neutralization: 1-2 % on shaved weight
- Fatliquoring: 2-8 % on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON ALX-10

Core Points: Special fatliquor for all kinds of leather where softness, fullness and lightness are crucial. High penetration power. Suitable to use alone or with other fatliquors.

Chemical Structure: Lecithin based combination of natural sulphited fatliquors and esters.

Specifications:

Appearance: Light yellow to yellow liquid

Concentration (%): 42,5 % \pm 2,5

pH(1:10): 6,0-7,5

Charge: Anionic

Light fastness: 4-5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turon ALX is very special fatliquor with high penetration and fatliquoring capability. Its versatile and suitable for garment, nappa, suede, light upholstery, flotter and all kinds of soft articles.

Properties: Leather becomes full, soft and light weight with a very pleasant silky humid touch.

Kimoi RA is highly stable in general for various condition and stable against hard water. It has perfect dyeability which results with intense and deep colors all over the skin.

Also softness and dry milling effect can be obtained after wet-toggling the leathers. Although it has quite rich touch, thanks to its penetration power which does not affect buffing properties of suedes and fur suedes, while creating bright and nice nap.

Recommended usage of Turon ALX:

-Main Fatliquoring

- % 5 - 8 on shaved weight (alone- ovine shoeupper)
- % 8 - 14 on shaved weight (alone - ovine garment)
- % 8 - 12 on shaved weight (alone - bovine nappa)
- % 5 - 7 on shaved weight (alone - bovine belt)
- %12 - 18 on shaved weight (alone - wet-toggle lining and flotter)

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON S 60

Core Points: General usage fatliquor. Multifunctional chemical structure giving softness and fullness to leather. Plays main role of every fatliquoring combinations.

Chemical Structure: Combination of sulfated based esters includes synthetic content partially.

Specifications:

Appearance: Yellow transparent liquid

Concentration (%): 57,5 % ± 2,5

pH(1:10): 7,5-8,5

Charge: Anionic

Light fastness: 5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turon S 60 is a fatliquor with high penetration capability as general usage fatliquor. Advised to use as main fatliquoring chemical or as a combination with other fatliquors, for all kinds of articles which desired to get medium softness and perfect fullness regardless of bovine or ovine skin. It has chrome stability so that can be used at chrom retanning as well.

Properties: Turon S 60 has high stability against chrome. It has high light fastness. Kimoil MAP supplies homogeneous softness and full body in addition to lubricious and nice touch over the surface. It has also good buffing properties supporting physical endurance of leather surface. Turon S 60 provides a homogeneous lubrication effect and tight skin for vacuum drying articles. It can be distributed over the skin and penetrate thoroughly increases performance of dyeing.

Recommended usage of Turon S 60:

- Cr retanning
- Neutralization
- Main Fatliquoring

: 0,5- 1 % on shaved weight : 1 - 2 % on shaved weight : 1 - 15 % on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON LCT

Core Points: For the production of light weight leathers with pleasant silky touch.

Chemical Structure: Lecithin based fatliquor.

Specifications:

Appearance: Dark yellow paste

Concentration (%): 47,5 % \pm 2,5

pH(1:10): 6,0-8,0

Charge: Anionic

Light fastness: 4-5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turon LCT has high power of penetration and fatliquoring effect, which creates medium softness. It is suitable for all types of ovine leather article production. It is advised for bovine, which are nappa, floater, upholstery, garment in short all kinds of softy articles.

Properties: Turon LCT is stable at low chrome concentrations.

Turon LCT creates peasant silky touch with full and soft handle. It brings low density of leathers, wet toggled milled leather comes up with uniform milling effects. Perfect dyeing and homegenous color are gained easily. After buffing, fibers become more saturated without oily feeling touch. Turon LCT's touch effect does not have negative effect on the finishing process of leather.

Recommended usage of Turon LCT:

- Neutralization: 2-4 % on shaved weight
- Fatliquoring: 4 - 8 % on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON SCS

Core Points: Fatliquor for lightness, softness and roundness desired all kinds of leathers. High performance of stability and emulsifying power.

Chemical Structure: Combination of synthetic fatliquors and esters.

Specifications:

Appearance: Light beige fluid liquid

Concentration (%): 48,5 % ± 1,5

pH(1:10): 6,0-7,0

Charge: Anionic

Light fastness: 4-5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turon SCS is versatile and universal fatliquor for ovine and bovine skins/hides with excellent light fastness. Ideal for all kinds of leather processes. It can be used also for garment, fur-suede, nappa, shoeupper. It is suitable to use wetting back agent for Wet Blue and crust leathers. It also helps distribution and penetration of other fatliquors used at main fatliquoring.

Properties: Turon SCS has excellent light fastness, it is perfect for white and light color leathers. It is suitable to use at tanning and pickling processes due to stability to hard water and chrome beside its high electrolyte stability.

With the help of emulsifying power of Turon SCS, all fatliquors used together with it can be distributed homogeneously and penetrate deeply, as a result skins become uniformly and perfectly fatliquored. Dye distribution is supported with homogeneity of chemicals.

Turon SCS creates pleasant waxy full touch with medium soft handle without disturbing grain tightness. Suede leathers become more vibrant and beautiful, no negative effect on buffing properties. Thanks to its high light fastness, it is advised for light colors and white leathers.

Recommended usage of Turon SCS:

- Pickling and chrome tanning: 1-3 % on pelt weight
- Wetting back of hard/dry Wet-Blue: 1-2 % on shaved weight
- Retanning: 1-4 % on shaved weight
- Fatliquoring: 1-5 % on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON VKS

Core Points: Fatliquor suitable for all kinds of articles when full body, compact, round touch, smooth leathers with moderate softness are required.

Chemical Structure: Natural sulphonated oils.

Specifications:

Appearance: Brown liquid

Concentration (%): 69% ± 1,0 (ISO 760)

pH(1:10): 6,0-8,0

Charge: Anionic

Light fastness: 4-5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turon VKS can be used as the main lubricant of fatliquoring combinations to generate medium soft feel and full handle. Best suited for the production of ovine and bovine.

Properties: Turon VKS helps to achieve moderate softness, full body handle, perfect grain tightness as well as silky touch over the surface. Due to these properties, it contribute to increase vacuum performance of leathers. Leathers treated with **Turon VKS** demonstrate brilliant dyeing properties.

Recommended usage of Turon VKS:

- Main Fatliquoring: 3-6 % based on shaved weight (within the fatliquor combinations)

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON FLN

Core Points: Lecithin based fatliquor for all types of soft leather. Produces very soft leathers with full, round handle and a pleasant touch.

Chemical Structure: Blend of lecithin based emulsified natural and synthetic fatliquors.

Specifications:

Appearance: Light Yellow-Yellow Color Paste

Concentration (%): 55% \pm 1,0

pH(1:10): 6,0-8,0

Charge: Anionic

Light fastness: 4-5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: TuronFLN is a fatliquor with high penetration ability produces soft, full, rich feeling and pleasant touch. Suitable for use in all types of bovine and ovine leathers.

Properties: Turon FLN is stable to hard water and low concentrations of chromium. Leathers treated with **Turon FLN** gain pleasant, plump silky touch, softness, fullness and roundness effect, will not increase in weight. Due to its outstanding penetration and dispersion features, **Turon FLN** is an excellent choice for suede and nubuck leathers since while filling fibers it doesn't allow the to stick to each other that contributes to ideal dyeing. Produces outstanding gloss especially to split suede, metis suede and fur suede. **Turon FLN** gives homogen dry milling effect to wet toggled leathers. **Turon FLN** does not block adhesion of layers on finishing process.

Recommended usage of Turon FLN:

- In neutralization: 2-4 % based on shaved weight
- Main Fatliquoring: 4-8 % based on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON RUB

Core Points: Tightness, fullness and rubbery effect fatliquor. Suitable for solely usage or in combination with other fatliquors.

Chemical Structure: Polymer based fatliquoring agent.

Specifications:

Appearance: Light yellow liquid

Concentration (%): 45 % \pm 1,0

pH(1:10): 7,0-9,0

Charge: Anionic

Applications: Turon RUB is very special fatliquor with high penetration, filling, bonding and homogeneous distribution capabilities helps to create softness and fullness simultaneously. Advised to use for washable shoe-upper, garment, leather articles and milled articles in which tightness and perfect fullness desired. Suitable for white and pastel shades dyed leathers.

Properties: Turon RUB has slightly dry touch with tight, full and rubbery handle. Creates homogeneous fullness and softness all over the skin. This feature of Turon RUB makes it ideal for milled articles.

Turon RUB is suitable to use during neutralization and before retanning stage. Usage prior to chrome in chrome retanning affects fullness and tightness positively. For grain fullness, it is advised to use at fatliquoring stage around 1-2 % Turon RUB following 0,5 % formic acid addition to bath. Turon RUB increases the fixation and penetration of all other fatliquors used as combination. Dry shaving properties of ovines are positively affected. Turon RUB has high stability against hard water conditions.

Recommended usage of Turon RUB:

- Cr retanning: 1-2 % (before chrome based on shaved weight)
- Main Fatliquoring: 2-8 % (based on shaved weight)

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON ANT-S

Core Points: Antistatic effect fatliquor with high emulsifying power designed to provide homogeneous distribution of oils.

Chemical Structure: Blend of emulsifiers

Specifications:

Appearance: Slightly yellowish beige paste

Concentration (%): 48 % \pm 1,0

pH(1:10): 7,0-8,5

Charge: Anionic

Applications: Suitable for all leather types in lubricant combinations to improve penetration and stability. **Turon ANT-S** penetrates easily through the leather cross-section producing exceptional softness in all leather types especially during wet-toggling.

Properties: Due to its outstanding ability to emulsify, **Turon ANT-S** provides homogeneous distribution of oil combinations through the leather cross-section, producing outstanding inner softness and flexibility. Provides uniform dyeing enhancing the color value of dyed leather. Leathers treated with **Turon ANT-S** demonstrate homogen and brilliant dyeing properties. **Turon ANT-S** possess exceptional antistatic features preventing leather from holding dust after buffing and dry shaving.

Recommended usage of Turon ANT-S:

- Main Fatliquoring: 0,5 – 2 % (on shaved weight, combined with other lubricants)

Packaging: 110 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet

TURON CAT

Core Points: Cationic fatliquor for leathers that needs surface touch and soft, smooth grain.

Chemical Structure: Cationic fatliquoring agent.

Specifications:

Appearance: Beige fluid liquid

Concentration (%): 20,0% \pm 1, (ISO 760)

pH(1:10): 3,0-5,0

Charge: Cationic

Light Fastness*: 4-5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turon CAT is a special cationic fatliquor recommended to be used when the bath charge is cationic during the process of any kinds of leather with a desired surface touch.

Properties: Turon CAT is a cationic oil emulsion with high affinity for leather fibers, thus providing deep softness to the leather.

Turon CAT produces leather with beautiful smooth silky touch and compact grain character. Has a positive effect on the color intensity giving rich deep colors. The product is especially recommended to be used on suede and split suede leathers.

Recommended usage of Turon CAT:

- Top fatliquoring: 0,3% - 1% (based on shaved weight depending on the desired touch when the drum medium is cationic)

Packaging: 100 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURONYL AMG

Core Points: It is suitable for all types of leather production where softness, lightness and bright appearance are desired. It is a combined lubricant consisting of lecithin, phosphoester and natural oils that can be used alone or in combination.

Chemical Structure: Lubricant with natural ingredients based on lecithin and phosphorester.

Specifications:

Appearance: Yellow-viscous liquid

Concentration (%): 52,5 % ± 2,5

pH(1:10): 6,0-7,0

Charge: Anionic

Light Fastness*: (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turonyl AMG is a special lubricant that is very convenient, has high penetration ability and good lubrication. It is suitable for ovine; all garment, light nappa and suede articles where shine is required. In the lubrication of bovine, it is recommended for upholstery, garment, flotter, nappa, lining, milling and wet-toggling articles, split suede for which shine is desired, and all light, soft articles.

Properties: Turonyl AMG gives a silky/warm and slightly damp touch that makes leather very soft and light. Using Turonyl AMG gives the leather light weight and significant softness. It has high stability against hard water. Turonyl AMG gives a homogeneous milling and a good softness effect, especially on articles to be wet toggling. Although it has a rich touch, it does not adversely affect the buffing properties of suede and fur suede articles due to its high penetration ability, and it ensures a bright and nice nap. Thanks to its homogeneous distribution, it does not adversely affect the dyeability of leathers and shows a strong and intense dyeing feature.

Recommended usage of Turonyl AMG:

- Main Fatliquoring: % 6 – 10 on shaved weight (alone – ovine garment)
% 8 – 12 on shaved weight (alone – bovine nappa)
%12 – 15 on shaved weight (alone – wet-toggle lining and flotter)

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing.
After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON TOG

Core Points: Fatliquor for full and medium softness results of wet-toggled hides to get perfect grain structure.

Chemical Structure: Esther based, sulphonated synthetic fatliquor mixture.

Specifications:

Appearance: Yellowish transparent liquid

Concentration (%): 50 % \pm 1

pH(1:10): 6,0-7,0

Charge: Anionic

Light Fastness*: (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turon TOG as it gives medium softness, fullness and nice silky touch, hence it is suitable to be used alone or within a fatliquor combination for all kinds of leather.

Especially, it is recommended for wet-toggling articles. Creates perfect grain structure, with ideal softness and touch without dryness.

Properties: Turon TOG is highly stable against hard water, chrome and acid mediums compared to other fatliquors.

Thanks to its special properties, Turon TOG is a fantastic solution for ovine skins to make rubber feeling while making lightweight leathers. Short nap with brilliant and homogeneous color of suede, split and fur-suede articles are easy to achieve with this product.

Recommended usage of Turon TOG:

- Fatliquoring: %6,0 – 10,0 (based on shaved weight)

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON SEP

Core Points: General purpose phosphoester based lubricant with high penetration power.

Chemical Structure: Phosphoester based lubricant containing special emulsifiers.

Specifications:

Appearance: Yellowish-yellow transparent liquid

Concentration (%): 59% ± 1,0 (ISO 760)

pH(1:10): 6,0-8,0

Charge: Anionic

Light Fastness*: 5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Combined with other oils, **Turon SEP** can be used for lubricating great variety of leathers ranging from garment and shoe upper to fur-suede, suedes and upholstery items. Thanks to its high light fastness, **Turon SEP** is particularly good for white and pastel-colour articles.

Properties: **Turon SEP** provides leather with a soft, plump, rounded handle and pleasant hand. Posseses excellent stability to electrolytes, hard water and chrome. It is a non-oxidized oil with high penetration and dispersion power. In the lubricating bath, it helps to increase the efficiency of other lubricants with which it is used. Thanks to these features, **Turon SEP** contributes to the homogeneity of dyeing and prevents the appearance of skin defects and faults. In addition, in suede and nubuck items, nice vibrant look and shine achieved, as well as pleasant soft handle.

Recommended usage of Turon SEP:

- Retanning: 1-3 % on shaved weight
- Neutralization: 1-2 % on shaved weight
- Fatliquoring: 3-5 % on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing.

After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON RPA

Core Points: Lubricant with proper softness under waterproof availabilities.

Chemical Structure: Silicone based, a mixture of synthetic, natural oils and emulsifiers.

Specifications:

Appearance: Whitish-Paste

Concentration (%): 56,0 % \pm 2,0

pH(1:10): 7,0-8,0

Charge: Anionic

Light fastness: (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turon RPA is an ideal lubricant substance for all articles where water repellent, waterproof and washability are required. In addition, Turon RPA is suitable for use with other lubricants in all kinds of leather types, articles where softness, fullness and roundness effect are required, and milling nappa.

Properties: Turon RPA is not stable against pickled and chrome baths. Kimoil RP increases the leathers resistance against to the water by itself or usage among with other lubricants. It provides a good waterproofing effect when fixation is done with mineral tanning agents at the end of the application process.

Turon RPA when used in lubricant combinations, it gives the leather a nice softness, fullness and a tight, flat skin with a silky, pleasant touch. These features provide Turon RPA with a wide range of uses from garment to shoes, such as upholstery to milling nappa. Giving a credit to its good product distribution, it helps the dyeing to be an example by providing homogeneous distribution of other waterproof oils, especially in combinations of waterproof oils. Turon RPA is suitable for white leather production.

Recommended usage of Turon RPA:

- Fatliquoring: 2.0% – 4.0% (in combinations based on shaved weight)
8.0 – 15.0% (on the shaved weight waterproof and washable articles alone or together with other waterproof oils.)

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing.
After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON SWP

Core Points: Lubricant specially produced for leathers where a high degree of waterproof is required.

Chemical Structure: Silicon-based, synthetic, natural oil and emulsifiers mixture.

Specifications:

Appearance: White viscous-liquid

Concentration (%): 40,0 % \pm 2,0

pH(1:10): 6,0-8,0

Charge: Anionic

Light fastness: (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turon SWP is an ideal lubricant for all products that require strong water repellency, waterproofing and washability. It can be used alone or combined with Turon RPA for waterproof military protective and all waterproof boots, shoes, clothing and bag product where waterproof test is required. In addition, Turon SWP is suitable for use in combination with other lubricants in all leather types, medium softness, extra fullness, and roundness desired articles.

Properties: Turon SWP is not stable against pickle and chrome baths. Turon SWP is mostly used alone, but when combined with other waterproof lubricant, it increases the resistance of the leather to water. When fixated with mineral tanning agents at the end of the application process, it provides a high degree of waterproof effect. It gives the leather full, medium-soft, and round effects. The use of Turon SWP combined with Turon RPA in waterproof studies supports the distribution of oil and being lubrication process homogeneously. It also contributes to the homogeneity of dyeing process.

When Turon SWP is used in fatliquoring combinations other than waterproof articles, it gives the skin moderate softness, fullness, and tight handling, as well as tight and flat grain and pleasant touch properties. With its features, Turon SWP has a wide range of uses from garment to shoe, from upholstery to napa.

Turon SWP is suitable for white leather production.

Recommended usage of Turon SWP:

- Fatliquoring: 2.0% – 4.0% (in combinations based on shaved weight)
8.0 – 15.0% (on the shaved weight waterproof and washable articles alone or together with other waterproof oils.)

Packaging: 120 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON CSF

Core Points: Special electrolyte stable oil, high emulsifying / penetrative power

Product Description: Combination of synthetic fatliquors and esters.

Specifications:

Appearance: Off-white liquid

Concentration (%): 41,0 % \pm 1,0

pH (1:10) : 6,0 – 7,0

Charge: Anionic

Light fastness: 4-5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Application:

Turon CSF is a synthetic oil that can be used in the processing of bovine and ovine leather for garment, nappa, nubuck, suede and fur. It has good stability against chromium and eletrolites, making it suitable for use in pickling, tanning and chrome retanning. In the fatliquoring of bovine for upper and leather goods, we recommend using it combined with other fatliquoring agents to improve their penetration and distribution.

Properties: Odorless – pleasant silky/clean touch – thin fluffy handle – light specific weight in treated material – it gives medium softness without affecting the firmness of the grain – high emulsifying toward other oils – strong power for dispersing and stabilizing the natural fat – fat spew risk is reduced- very clean white colour on pure-chrome leathers – stable to electrolyte – stable to acids and alkali, hard water and solvent washing- very even clean and not weakened dyeing – suede nap has pleasant no sticky luster – nubuck is uniformly dyed.

Recommended usage of TURON CSF:

- Pickle-chrome tanning : 1 – 4 % on pelt weight
- Wetting back hard/dry w.b. : 1 – 3 % on shaved
- Retanning : 1 – 4 % on shaved weight
- Main fatliquor : 1 – 5 % on shaved weight

TURONYL MOD

Core Points: Fatliquoring agent for lightness, softness and roundness desired all kinds of leathers.

Chemical Structure: Blend of synthetic and natural fatliquors.

Specifications:

Appearance: Brown-viscous liquid

Concentration (%): 47 % \pm 1

pH(1:10): 6,0-7,0

Charge: Anionic

Light fastness: (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turonyl MOD is a synthetic based fatliquor agent that can be used in combination with other lubricants for garment, glove, upper, nappa, nubuck and fur-suede. It is suitable for wetting back of WB and crust leathers as well as for the production of light colored and white gloving leathers.

Properties: The use of Turonyl MOD in the main fatliquoring helps the penetration and distribution of the lubricants that used in the combination. It has good stability against hard water, acid and low concentration chromium solutions.

Turonyl MOD provides leathers with a soft, full body and a pleasant touch. While it gives a nice shine to the suede, it does not affect the buffing properties of the leather fibers negatively.

Recommended usage of Turonyl MOD:

- Wetting back of hard/dry Wet-Blue: 1-2 % on shaved weight
- Fatliquoring: 1-4 % on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURONYL Q7

Core Points: It is suitable for all types of leather production where softness and bright appearance are desired. Fatliquoring agent that can be used alone or in combination as the main lubricant.

Chemical Structure: A blend of lecithin and natural oils.

Specifications:

Appearance: Brown-Viscous Liquid

Concentration (%): 49% \pm 1

pH(1:10): 6,0-7,0

Charge: Anionic

Light fastness: (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turonyl Q7 is a lubricant that gives softness, moderate fullness to leathers and has a high penetration ability. It is suitable for ovine; all garment, nappa and suede articles where shine is required. In the lubrication of bovine, it is recommended for upholstery, soft nappa, milling and wet-toggling articles, split suede for which shine is desired, and all soft articles.

Properties: Turonyl Q7 has a silky touch and soft feeling effects. Using Turonyl Q7 gives the leather light weight and significant softness. It has good stability against hard water, chrome and acid solution.

Turonyl Q7 gives a homogeneous milling and a good softness effect especially on articles to be wet toggling. Turonyl Q7 does not adversely affect the buffing properties of suede and fur suede articles due to its high penetration ability, and it ensures a bright and nice nap. Thanks to its homogeneous distribution, it does not adversely affect the dyeability of leathers and shows intense dyeing feature.

Recommended usage of Turonyl Q7:

- Main fatliquoring: % 8-14 on shaved weight (alone – ovine garment)
% 5-8 on shaved weight (in combination – bovine nappa)
% 2 – 5 on shaved weight (in combination – spite suede)

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing.

After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURONYL BLC

Core Points: Fatliquoring agent suitable for all leather types where softness and a pleasant touch are required, such as garments and gloves.

Chemical Structure: A special fatliquoring agent that combination of phosphate ester-based, synthetic and natural lubricant and special softeners and touchers.

Specifications:

Appearance: Yellow-Viscous Liquid

Concentration (%): 47% \pm 1

pH(1:10): 6,0-7,0

Charge: Anionic

Light fastness: (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turonyl BLC is a fatliquoring agent that can be used in lubricating combinations of all types of leather where softness is required, such as garment, nappa, glove, suede and split suede. Suitable for white and pastel shades leather articles..

Properties: Turonyl BLC provides leathers with a soft handle, light weight and a very pleasant/waxy touching effect. It has good stability against hard waters, acids and low concentrations of chromium solutions. In suede and splite suede production, it gives the leather a waxy touch as well as a nice vitality and shine. Thanks to its good distribution, it contributes to the homogenous dyeing properties.

Recommended usage of Turonyl BLC:

- Main fatliquoring: 2-6 % on shaved weight.

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURONYL VIP

Core Points: Fatliquor designed to produce outstanding brilliance on suede and nubuck with writing effect and pleasant touch on all kinds of leather.

Chemical Structure: Mixture of Sulphited Esters and Synthetic Oils.

Specifications:

Appearance: Yellowish transparent liquid

Concentration (%): 66% ± 1,0 (ISO 760)

pH(1:10): 7,0-8,0

Charge: Anionic

Light Fastness*: 4-5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turonyl VIP, thanks to its softness, touch and writing effect, it is highly recommended for garment, shoe and suede leathers. An excellent all purpose coproduct with other fatliquors to give burnish effect on leather.

Properties: Turonyl VIP has above average stability; softness and gives a very pleasant feel to the leather. Produces leather with good buffing characteristics, exceptional brilliance – writing effect, coupled with a slightly wet handle. Particularly useful for suede and nubuck leather production. To achieve excellent results on split suede leather during wet toggling, ideal for the use in combination with Turon TOG. Due to its high stability, the product has a wide range of application.

Recommended usage of Turonyl VIP:

- Pickle and chrome tanning: 1,0-2,0 g/l (fur- suede leathers)
- Main Fatliquoring: 2,0-4,0% (based on shaved weight)

Packaging: 120 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURONYL BTS-NEW

Core Points: Fatliquor especially for inner softness desired articles, stable to electrolytes. Suitable for all types of leather articles.

Chemical Structure: Sulphited fish oil and synthetic fatliquors combination.

Specifications:

Appearance: Reddish brown viscous fluid

Concentration (%): 65 % \pm 1,0

pH(1:10): 6,0-8,0

Charge: Anionic

Light Fastness*: 4 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turonyl BTS-NEW creates very soft leather with high penetration capability. It can be used at pre-fatliquoring stage of naturally hard leathers as it works on inner softness especially. It is an ideal fatliquor for upholstery, garment, floater and nappa style leather due to its special properties to gain softness.

Properties: Turonyl BTS-NEW is stable against hard water and electrolytes. It is also emulsifying other fatliquors. Turonyl BTS-NEW creates ideal softness while supporting fullness and making waxy touch of leather with pleasant feeling. For more softness desired articles, it can be added little quantity at main fatliquoring stage as combination with others.

Due to homogeneous distribution of Turonyl BTS-NEW it is easy to create uniform dyeing and color all over the surface. It is perfect to create bright colors with brilliance on suede. It is suitable for use in all stages from tanning to retanning process, especially in fur-suede processes that require softness, silky touch and shine.

Recommended usage of Turonyl BTS-NEW:

- Cr retanning: 0,5-1 % on shaved weight
- Neutralization: 0,5-1 % based on shaved weight
- Fatliquoring: 1,0-1,5 % based on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing.

After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet..

TURONYL NFO

Core Points: Natural fatliquoring designed to produce outstanding touch.

Chemical Structure: Natural neats foot oil.

Specifications:

Appearance: Yellowish Clear Liquid

Concentration (%): 99-100 %

Light fastness: 4-5 (ISO 105 B02/ GRADE 5)

*Test on non retanned WB leather

Applications: Turonyl NFO is recommended for vegetable tanned leathers, nubuck and suede to produce natural gloss and pleasant touch. Provide slightly wet surface touch to leathers after vacuum drying. It is recommended for use on waterproof leathers.

Properties: Combined with other oils Turonyl NFO provides very pleasant touch coupled with grain softness and fullness. It also imparts silky feel and a mellow handle to nubuck and suede leather. It provides a good shining and writing effects on suede and nubuck leathers. Providing outstanding lubrication, increases grain strength and prevent leather from cracking. Exhibits excellent fiber substantivity, which is especially beneficial for leathers intended for vacuum drying. Since Turonyl NFO is insoluble in water, it is recommended to be used in combination with other oils with emulsifying properties.

Recommended usage of Turonyl NFO:

- Vegetable retanning: 0,2-0,8 % (based on shaved weight)
- Fatliquoring: 0,5-1,5 % (based on shaved weight)

Packaging: 110 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURONYL LAN

Core Points: Natural fatliquor, particularly suitable for making leather when firmness, fullness, waxy surface feel and grain elasticity are required.

Chemical Structure: Lanoline based sulphite natural oil

Specifications:

Appearance: Dark yellow-brown viscous liquid

Concentration (%): 50 % \pm 1,0

pH (1:10): 5,0-7,0

Charge: Anionic

Applications: Turonyl LAN is a lanolin-based oil that produces leathers with a full handle and a waxy touch. Turonyl LAN is suitable for all leather types including bovine leathers, to produce items with low elasticity, nubuck, waxy touch leathers, and items with pull-up and burnish effect. It is also recommended for wet-toggled and vacuum dried articles due to the impact on the surface of the leather while keeping certain level of moisture within the articles which helps to prevent overdrying.

Properties: Turonyl LAN is resistant to hard water and it has good penetration ability. Turonyl LAN produces medium softness with waxy touch without affecting the leather tightness. Helps overdried leathers to regain sufficient moisture level. Reduces fragility in vegetal and semi- vegetal tanned leathers and hides leather defects. It's recommended for vegetal and semi-vegetal leathers to keep them naturally beautiful and increases their tearing and cracking resistance.

Possesses excellent fibre substantivity. Produces outstanding brilliance and writing-effect on leathers.

Recommended usage of Turonyl LAN:

- Main fatliquoring: % 0,5-3,0 (based on shaved weight)

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURONYL RM

Core Points: High stability fatliquor for softness and fullness desired articles.

Chemical Structure: Sulphited fish oil and synthetic fatliquors combination.

Specifications:

Appearance: Brown liquid

Concentration (%): 62,5 % \pm 2,5

pH(1:10): 6,0-7,0

Charge: Anionic

Light Fastness*: 4-5 (ISO 105 B02 / GRADE 5)

*Test on non retanned WB leather

Applications: Turonyl RM has high penetration power and soft, full touch. Kimoil SSD keeps grain tightness and body roundness while creating ideal and uniform softness therefore it is a versatile fatliquor for all kinds of leather productions. It can be used at main fatliquoring combined with all other fatliquors.

Properties: Turonyl RM has high stability against hard water, electrolytes and chrome. It brings emulsifying advantage for the medium. Leather gains pleasant waxy touch beside perfect softness and fullness with the help of Turonyl RM.

Turonyl RM has impressive contribution to uniform dyeing also suedes become more vibrant and bright.

Recommended usage of Turonyl RM:

- Cr retanning: 0,5-1 % on shaved weight
- Fatliquoring: 1,5-4 % on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURONYL SFT

Core Points: Fatliquor for all articles require inner softness

Chemical Structure: Blend of sulphited natural fatliquors.

Specifications:

Appearance: Yellow-Orange liquid

Concentration (%): 62 % \pm 1

pH(1:10): 5,0-6,5

Charge: Anionic

Applications: Turonyl SFT has impressive inner softness and high penetration power. Thanks to its features, it is strongly advised for upholstery, garment, floater, nappa and suede leathers.

Properties: Turonyl SFT has high stability against hard water, electrolytes and low chrome concentration media. It is also perfect for soft character vegetal leathers. It is ideal solution for medium fullness and perfect softness desired articles.

Turonyl SFT imparts moderate fullness and good softness to leathers, as well as a pleasant handle. When it adds in main fatliquoring blend, it supports to increasing softness. Turonyl SFT has impressive contribution to uniform dyeing also suedes become more vibrant and bright.

Recommended usage of Turonyl SFT:

- Fatliquoring: 2-4 % based on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON FN3

Core Points: Fatliquoring agent, suitable for all types of leather where softness, fullness and roundness are desired.

Chemical Structure: Blend of sulphited fish oil and naturel oils.

Specifications:

Appearance: Light red fluid

Concentration (%): 55,0 % \pm 1,0

pH(1:10): 5,5-6,5

Charge: Anionic

Light Fastness*: (ISO 105 B02 / GRADE 5)

Applications: Turon FN3 is suitable for all types of leather where good inner softness, fullness and a nice surface touch are required. It is recommended for all full grain leather types, as it does not adversely affect the grain tightness of the skins/hides.

Properties: The penetration ability of Turon FN3 is high. It has good stability against hard water, acid and low concentration chromium solutions. Turon FN3 provides softness and fullness to leathers, as well as a roundness and a pleasant, nice touch.

Turon FN3 helps the dyeing to be even, thanks to its uniform distribution on the skins/hides. It provides a homogeneous color tone. It gives suede a nice shine, nice touch and vitality.

Recommended usage of Turon FN3:

- Cr retanning: 0,5-1,0 % on shaved weight
- Fatliquoring: 1,0-2,0 % on shaved weight

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. It is fluid until 25 °C, if affected by frost the product should be warmed to a temperature of +15 °C to + 25 °C then stirred thoroughly or re-circulated by in- pumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.

TURON SUED

Core Points: Mineral based lubricant that can be used during dry milling to obtain a dark color and brightness on the surface, especially in suede.
Product Description : Mineral oil

Specifications:

Appearance: Light yellow - transparent liquid
Concentration (%) : min 99%

Applications: Turon SUED helps to remove the lightening of the color of the leather, especially after buffing and shaving, when used during the dry milling of suede, split suede and nubuck. It also enables brighter and darker colors to be obtained. When used at the top surface lubrication in suede dyeing, it increases the touch effect, brightness and color intensity.

Properties: Turon SUED provides a silky-good touching effect on the leather which it is applied. It gives very bright and deep colors. Thanks to these properties, it is especially recommended for the production of nubuck, suede and split suede leathers.

Turon SUED is insoluble in water.

Turon SUED is suitable for use during dry milling and for surface lubrication in the drum.

Packaging: 110 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5° - 50°C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished. If affected by frost the product should be warmed to a temperature of +15°C to +25°C then stirred thoroughly or recirculated by inpumping. Stir before use.

Safety Instruction: Please revert to relevant Safety Data Sheet.



**SPECIAL
PRODUCT**



SINTAN
C H E M I C A L S

Core Points: Environmentally friendly tanning material with tanning effect.

Chemical Structure: Variety of mineral based synthetic and natural tannins.

Specifications:

Appearance: White Powder
Total Solid (%): min. 90
pH (1:10): 6,0-7,0

Applications:

- It is suitable for white leather production thanks to its tanning ability.
- It can be used combination with other tanning products.
- It can be used with together mineral tanning products that are likes chrome also.
- No need basification step when its used at tanning together with less amount of chrome.
- It gives the leather excellent fullness, tightness and roundness effects.
- It improves buffing and cutting yield area performance for suede leather.
- Thanks to Turtan TAN's perfect dyeability effect, when its used at tanning step the leathers have more brilliant, vibrant and strong colors
- Turtan TAN has no negative effects on waterproof effect and tear resistance.

Recommended usage of Turtan TAN:

- Wet-white tanning: 2 - 6 % on pelt weight combine with other white tanning agents or aldehydes
- Mineral tanning: 3-4 % on pelt weight, combine with mineral tanning agents (3-4%)

For more information please contact our technical department.

Packaging: 125 Kg. Plastic Drums

Storage: At least one year when stored properly according to international industrial norms and practice between 5 - 50 °C original sealed packing. After opening the package, product must be consumed in a short period of time and preserved inside its original packing until it is finished.

Safety Instruction: Please revert to relevant Safety Data Sheet.



SINTAN
C H E M I C A L S

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