



Divine Chemicals Company Innovating Chemistry

Divine Chemical's strength and business mission is to provide innovative chemistry to our customers with superior environmentally friendly products using the latest technologies and the finest raw materials.

We are Specialty Chemical Company and are committed to bring innovative products to the market. Our product technology keeps the environment clean and enables our customers to make products that enhance daily life of the people around the world. Our innovative chemistry can be found in chemicals for processing leather.

At Divine Chemicals, we are passionate about the leather chemical business. Through our new product development and applications laboratories and our technical field-support experts, we operate as an extension of our customer's research and development efforts.

We are committed to produce high performance products at competitive prices and provide better service to the customer.

Evolving to meet the ever changing market:

Divine Chemicals Company is Specialty Chemical Company founded to produce high performance chemicals for leather Industry and cater the needs of domestic & international market. Divine Chemicals Company manufactures all kind of chemicals for leather processing. Our leather team is committed to the tanner's goal of producing leather to meet the exacting demands of growing export market.

Welcome to Divine Chemicals Company- Leather Chemicals

As a Specialty Chemical Company, **Divine Chemicals Company** offers a variety of wet end products to the International Leather Industry.

At **Divine Chemicals Company**, we are passionate about the leather chemical business. Our innovative technologies have revolutionized the leather processes - where critical properties are imparted to leather, and where the appearance of animal hide or skin is significantly changed and enhanced improving its color, surface look, touch, feel, resistance, endurance, softness and toughness.

Our aim is to improve the quality of leather with high performance chemicals for all end use applications - whether it is for upholstery, shoe upper, garment leather, bag leather, leather goods and industrial leather.

At **Divine Chemicals Company** we are committed to innovating and developing environmentally friendly water base products with superior performance and better cost advantage.

The technologies and products we offer for leather processing include:

Dyisol:

APEO free Wetting, Degreasing and Dispersing Agent; High efficiency, versatile, wetting, degreasing, emulsifying and dispersing agent. Stable to neutral salts, acids, alkalis, mineral and vegetable tanning agents imparts faster soaking, wetting back, uniform pelts and accelerates the processes.

Dytan:

Pretanning and Tanning Syntan;

Aluminum syntan, Aluminum chrome syntan and Aromatic sulphonic acid condensation product; imparts good pretanning and tannin effect thereby leather with good fullness, tight grain, improved break, good filling, uniform and level colored and high yield are obtained.

Vegetable, Phenol and Aromatic sulphonic based;

Imparts excellent fullness, roundness, filling, uniform and leveled color with fine grain. It helps in improving cutting area yield of leather, suitable for retanning of wet blues to obtain fuller, fine and closed grain with excellent reactivity.

Synthetic Vegetable Tanning Agent; Tanning and retanning product imparts excellent fullness, roundness, effective filling, uniform and leveled color with fine grain. It helps in improving cutting area yield of leather. It is particularly suitable for retanning of wet blues to obtain fuller, fine and closed grain with excellent reactivity.

Synthetic Aldehyde based; Specially engineered tanning and retanning agent imparts good fullness, grain tightness improved break with excellent lightfastness, uniform feel and fine break to the leather. It penetrates deep into leather especially in looser areas giving good filling effect, round body and feel throughout the cross-section of leather.

Dycotan:

Retanning Syntan; based on chrome complex;

Penetrates rapidly through the pelt producing leather with even distribution throughout the cross section of leather raising shrinkage temperature, imparts improved softness, fullness, tightness, grain smoothness with mellow handle.

Neutralizing syntan; Imparts uniform and controlled neutralization on chrome and vegetable tanned leathers. It is compatible with mineral and vegetable tanning and ensures even penetration of tanning and retanning material, gives level & enhanced dyeing and fatliquoring. It reduces grain loading and acts as good leveling agent. Mild retanning, mild neutralizing and strong buffering action make it suitable for all types of leather.

Dye Leveling and Dispersing Syntan- It has very good dispersing effect during dyeing process to result in a level uniform dyeing. It has mild affinity for chrome and vegetable leathers, levels the grain surface resulting in smooth and tight grain and improves the penetration and distribution of subsequent retanning agents and thereby it adds uniformity of retannage and improves the fullness and handle of the finished leather. It helps to disperse and increase the uptake of tanning, retanning, vegetable tanning and synthetic tanning materials.

Dycryltan:

Acrylic Syntan; Imparts tanning and retanning effect, excellent filling, uniform softness and grain tightness with improved break, good fullness and fluffy handle, uniform milling to form uniform pattern. Leather produced with it has very good filling, lightweight and very good light fastness.

Special Polymeric compound; Imparts excellent compactness and better buffing property resulting into fine nap to suedes and also better finishing of splits and corrected grain leathers. It yields fuller and compact bellies along with good roundness throughout the leather.

Lubricated Polymer syntan; Imparts lubricated grain tightness with improved grain break, good fullness, good filling in loose areas, plumpness, grain compactness, improved buffing and fluffy handle.

Dysyntan:

Replacement syntan; Imparts a high degree of suppleness and in addition improves the tightness and fineness of the grain with mellow handle. It has good dispersing effect results in a deeper and more uniform penetration, imparts good body, compact grain and very good fullness, roundness, mild filling and ensures smoothness and tightness of grain.

Resin and Filling Syntan; Imparts selective filling in the loosely structured parts of the leather. Gives good grain tightness and fullness to the leathers with good leveled dying, better buffing and finishing.

Dyfill:

Drum Filler; Imparts excellent uniformity throughout the leather, together with filling action, it imparts very good fullness, roundness, a tight break and soft handle, soft silky feel, uniform look, good buffing properties and improved finishing.

Dyimol:

Wool grease based fatliquor; Imparts good penetration, excellent feel to the leather with very good softness, nourishment, round body with warm mellow handle and supple feel.

Fish oil based fatliquor; Imparts excellent softness with good body and increased fullness with fine break and pleasant warm surface touch with good tensile and tear strength.

Neets foot oil based fatliquor; Imparts silky nourished feel with tight grain and good tensile strength, good softness and grain lubrication with pleasant feel while enhancing the overall fatliquoring effect as well as improves grain crack resistance with grain flexibility.

Sperm oil based fatliquor; imparts softness, fullness, waxy feel and silky touch, good grain lubrication with tight fine grain and helps to avoid grain crackness and improves tear strength, also imparts brilliant sheen to suedes and nubucks.

Dyisoft:

Vegetable oil based fatliquor; imparts excellent softness with very good feel and roundness. It imparts high luster and silky feel to suede and nubuck. Suitable for all types of leather.

Phospholipids and lecithin based fatliquor; imparts lightweight, fullness, improved grain tightness, excellent even inner softness throughout the whole substance. Fuller leather with warm and silky touch is obtained. It imparts both retanning and fatliquoring effect without looseness.

Dyipol:

Synthetic fatliquor; Based on synthetic esters, hydrocarbons, imparts lightweight, lightfastness, good penetration, excellent softness, good fullness and slightly waxy surface feel. electrolyte stable, can disperse tanning material, vegetable tanning, untreated oils, syntans and dyes. Suitable for all types of leather.

Semi synthetic fatliquor; Based on synthetic esters, hydrocarbons, vegetable & natural oil imparts good penetration, good softness, good fullness and slightly waxy surface feel. Suitable for all types of leather.

Free oil; Based on Synthetic neetsfoot and sperm oil, imparts softness, good grain lubrication, body and helps to reduce risk of grain crackness. Suitable for all types of leather.

Dyifix:

Fixing Agent; Imparts fixing property to syntans, vegetable tannins and fatliquors and thereby helps in bath exhaustion. It imparts partial fixation to dyes, for better dye fixation it is always recommended to use formic acid. Suitable for all types of leather.

Dyilix:

Cationic Fatliquor; Imparts more uniform and rapid chrome tanning distribution with mild lubrication to the fibers, enhances both softness and fullness with smoothness and pleasant handle. Suitable for all types of leather.

Dyauxl:

Moisture retainer; Retains and balances desired level of moisture in leather in hot and dry climates, imparts mild softness, maintains feel and thereby reduces risk of grain crackness. Suitable for all types of leather.

Products at a Glance

Wetting, Degreasing and Dispersing Agent

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|--------------------|--|------------------|----------------|---------------------|--|
| Dyisol DEWM | Fatty alcohol polyglycol ether | Colorless liquid | 20 ± 2 | 6.0-8.0 / Non-ionic | Dyisol DEWM is APEO, NPEO & OPEO free, high efficiency, versatile, wetting, degreasing and emulsifying agent. Stable to neutral salts, acids, alkalis, and mineral tanning agents. Dyisol DEWM accelerates soaking, produces even pelts and helps in emulsifying and distributing natural fats at all the stages in leather processing. Dyisol DEWM penetrates fast and deeply into the hide and pelt, dissolves natural fat, emulsify and finally removed by rinsing. Besides thorough degreasing Dyisol DEWM procedure enables an odorless and effluent protecting operation. Dyisol DEWM can be used in soaking, liming, deliming, degreasing, pickling and rewetting operation. Suitable for wetting and degreasing chrome and EI (Vegetable tanned) leathers. Dyisol DEWM can be used 1 to 5 % for all types of leather depending on type of leather to be produced and result desired. |
| Dyisol DEWC | Fatty alcohol polyglycol ether | Colorless liquid | 85 ± 2 | 6.5-8.5 / Non-ionic | Dyisol DEWC is APEO, NPEO & OPEO free, high efficiency, versatile, wetting, degreasing and emulsifying agent. Stable at neutral salts, acids, alkalis, and mineral tanning agents. Dyisol DEWC accelerates soaking, produces even pelts and helps in emulsifying and distributing natural fats at all the stages in leather processing. It penetrates fast and deeply into the hide and pelt, dissolves natural fat, emulsify and finally removed by rinsing. . Besides thorough degreasing Dyisol DEWC procedure enables an odorless and effluent protecting operation. Dyisol DEWC can be used in soaking, liming, deliming, degreasing, pickling and rewetting operation. Suitable for wetting and degreasing chrome and EI (Vegetable tanned) leathers, Dyisol DEWC helps in dispersing chrome soaps and can be used to degrease wet blue to achieve level dyeing. Dyisol DEWM can be used 0.5 to 4 % for all types of leather depending on type of leather to be produced and result desired. |
| Dyisol DSPA | Amphoteric fatty acid and alcohol derivative | Viscous liquid | 50 ± 2 | 6.0-8.0 / Non-ionic | Dyisol DSPA is APEO, NPEO & OPEO free, amphoteric in nature, powerful highly concentrated wetting, dispersing, penetrating and emulsifying agent helps in better penetration and dispersion of tanning, retanning materials and falliquors. Stable to neutral salts, acids, alkalis, chrome, aluminium and synthetic tanning materials at usual concentration. Dyisol DSPA is suitable for all types of leather except waterproof & water repellent. The leather looks cleaner due to use of Dyisol DSPA in pickle or during chrome tanning due to its detergency and dispersing property. Due to clean leather, dyeing is more even, uniform, rich and has brilliant look. Dyisol DSPA can be used 0.5 to 3 % depending on type of leather to be produced and result desired. |

Pretanning and Tanning Syntan- Based Aluminium, Chrome and aromatic sulphonic acid

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|---------------------|-------------------------|------------------------|----------------|--------------------|--|
| Dytan AT-35 | Aluminum complex syntan | Clear colorless liquid | 30 ± 2 | 2.5-3.5 / Cationic | Dytan AT-35 is pure Aluminium syntan having self tanning power, produces leather with compact tight smooth grain, good filling, fullness, excellent plumpness, better cutting yield and very good buffing property. Dytan AT-35 can replace chrome partly in tanning and completely in rechroming. When used in tanning as a pretanning agent (1-3 %) it is always advisable to use the product at higher pickle ph approx 3.0 and followed by chrome tanning resulting into better uptake of chrome, flat and uniform wetblue. When pelt pretanned with Dytan AT-35 and basified, splitted and shaved are treated with vegetable and synthetic tanning material leather with excellent fullness and plumpness are obtained. In case of vegetable tanned leathers Dytan AT-35 is used 3-5% after pickling followed by basification. The same stock when vegetable tanned, leather with excellent fullness, plumpness, compactness with better area yield are obtained. Dytan AT-35 imparts denser and tighter grain, brilliant and deeper dye shades and excellent nap for suede and nubuck. Dytan AT-35 can also be used for pretanning wet white pelts to make them readily splittable and shavable. Suitable for pretanning, tanning and retanning of all types of leather including white leather. It can be used 2 to 5 % depending on type of leather to be produced and result desired. |
| Dytan AT-100 | Aluminum complex syntan | White powder | 95 ± 2 | 2.5-3.5 / Cationic | Dytan AT-100 is pure highly concentrated Aluminium syntan in powder form having self tanning power, produces leather with compact tight smooth grain, good filling, fullness, excellent plumpness, better cutting yield and very good buffing property. Dytan AT-100 can replace chrome partly in tanning and completely in rechroming. When used in tanning as a pretanning agent (1-3%) it is always advisable to use the product at higher pickle ph approx 3.0 and then followed by chrome tanning resulting into better uptake of chrome, flat and uniform wet blue. When pelt pretanned with Dytan AT-100 and basified, splitted and shaved are treated with vegetable and synthetic tanning material leather with excellent fullness and plumpness are obtained. In case of vegetable tanned leathers Dytan AT-100 is used 3-5% after pickling followed by basification. The same stock when vegetable tanned, leather with excellent fullness, plumpness, compactness with better area yield are obtained. It imparts denser and tighter grain, brilliant and deeper dye shades and excellent nap for suede and nubuck. Dytan AT-100 can also be used for pretanning wet white pelts to make them readily splittable and shavable. Suitable for pretanning, tanning and retanning of all types of leather including white leather. Dytan AT-100 can be used 2 to 5 % depending on type of leather to be produced and result desired. It can be used in rechroming stage, & can also be used for metal capping of water proof or water resistant leather. |

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|----------------------|---|-----------------------|----------------|--------------------|--|
| Dytan AS-96 | Aluminium and aromatic sulphonic acid complex | Creamish white powder | 95 ± 2 | 3.0-4.0 / Anionic | Dytan AS-96 imparts pronounced handle and very good grain tightening effect. Dytan AS-96 is used in retanning of chrome leathers to achieve good depth of shade and levelness besides softness and fine grain. Dytan AS-96 is a good product for production of nubuck and suede leathers. Dytan AS-96 produces leather with compact tight smooth grain, good filling, fullness, excellent plumpness, better cutting yield and very good buffing property. It can replace chrome partly in tanning and completely in rechroming. When used in tanning as a pretanning agent (1-3%) it is always advisable to use the product at higher pickle ph approx 3.0 and then followed by chrome tanning resulting into better uptake of chrome, flat and uniform wet blue. When pelt pretanned with Dytan AS-96 and basified, splitted and shaved are treated with vegetable and synthetic tanning material leather with excellent fullness and plumpness are obtained. Suitable for all types of chrome tanned leathers. It can be used 1 to 4 % depending on type of leather to be produced and result desired. |
| Dytan AS-96FF | Aluminium and aromatic sulphonic acid complex | Creamish white powder | 95 ± 2 | 3.0-4.0 / Anionic | Dytan AS-96FF is free of free formaldehyde product imparts pronounced handle and very good grain tightening effect. Dytan AS-96FF is used in retanning of chrome leathers to achieve good depth of shade and levelness besides softness and fine grain. Dytan AS-96FF is a good product for production of nubuck and suede leathers. Dytan AS-96FF produces leather with compact tight smooth grain, good filling, fullness, excellent plumpness, better cutting yield and very good buffing property. It can replace chrome partly in tanning and completely in rechroming. When used in tanning as a pretanning agent (1-3%) it is always advisable to use the product at higher pickle ph approx 3.0 and then followed by chrome tanning resulting into better uptake of chrome, flat and uniform wet blue. When pelt pretanned with Dytan AS-96FF and basified, splitted and shaved are treated with vegetable and synthetic tanning material leather with excellent fullness and plumpness are obtained. Suitable for all types of chrome tanned leathers. It can be used 1 to 4 % depending on type of leather to be produced and result desired. |
| Dytan AC-98 | Chrome and aluminium complexed with syntan | Greenish powder | 94 ± 2 | 3.0-4.0 / Cationic | Dytan AC-98 is free of free formaldehyde product helps in accelerating the penetration and therefore better chrome dispersion in the cross-section is achieved. It imparts excellent filling, dense tight grain, and good buffing properties. Dytan AC-98 produces short and very silky nap to suede and nubuck leathers. Very deep and brilliant dyed shades are obtained when Dytan AC-98 is used in tanning and rechroming. In chrome tannage about 25% of total tanning can be replaced with Dytan AC-98 . In rechroming of chrome leathers 4-8% Dytan AC-98 on shaved can be used. It can also be used in combination with BCS for semichroming of vegetable leathers to produce tighter and |

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| | | | | | fuller leathers with very good dyeing properties. It can be used 2 to 8 % depending on type of leather to be produced and result desired. |
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Pretanning and Tanning Syntan - Vegetable, Phenol and aromatic sulphonic based

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|------------------|---|---------------------|----------------|-------------------|--|
| Dytan STA | Tailor made vegetable tanning agent | Light Brown powder | 93 ± 2 | 4.5-6.5 / Anionic | Dytan STA is free of free formaldehyde tanning and retanning product imparts excellent fullness, roundness, filling, better buffing property, uniform and leveled color with fine grain. It helps in improving cutting area yield of leather. Dytan STA is particularly suitable for retanning of wet blues to obtain fuller, fine and closed grain with excellent reactivity. It can also be used for leather board, vegetable tanned, semichrome leathers. Dytan STA has higher lightfastness compared to other extracts. Dytan STA imparts excellent dispersion to vegetable tanning material, syntans, dyes and fatliquoring agent there by improving the penetration of material and reducing the wastage in the effluent. Dytan STA can be used with advantage as a pretanning agent for leathers to be vegetable tanned, it accelerates the uptake of tannins. In vegetable tanned leathers, Dytan STA can easily replace 25 to 30% vegetable tannins with advantage. Dytan STA has good dispersing effect and hence can be used as pretanning agent and dispersing agent and there by imparts compactness with mellowness and helps in maintaining the feel and thickness of leather. Suitable for all types of leather. It can be used 2 to 16 % depending on type of leather to be produced and result desired. |
| Dytan TRA | Tailor made vegetable tanning agent replacement to Tara Powder | Light Brown powder | 93 ± 2 | 4.5-6.5 / Anionic | Dytan TRA tanning and retanning product imparts excellent fullness, roundness, filling, better buffing property, uniform and leveled color, good softness with fine grain. It helps in improving cutting area yield of leather. Dytan TRA has higher lightfastness compared to other extracts. Dytan TRA is particularly suitable for retanning of wet blues to obtain fuller, fine and closed grain with excellent reactivity. It can also be used for vegetable tanned, semichrome leathers. Dytan TRA imparts good dispersion. Suitable for all types of leather. It can be used 2 to 11 % depending on type of leather to be produced and result desired. |
| Dytan VTW | Tailor made vegetable & Polymeric tanning syntan for all types of leather | Light Yellow Powder | 95 ± 2 | 5.5-7.5 / Anionic | Dytan VTW is free of free formaldehyde syntan imparts excellent fullness, roundness, better buffing property, uniform and leveled color with good filling to the looser areas resulting fine tight grain with soft handle. Polymerically modified vegetable tanning syntan for pastel and light shade leathers, it gives good dyeing properties and improves buffing property of nubuck and suede leathers. Dytan VTW helps in improving cutting area yield of leather and is fixed under acid condition and has selected filling action, which improves the more open structured areas of |

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| | | | | | <p>leather. This results in the leather with fullness, tight flexible grain and uniform softness making it a very suitable retanning material for the production of softy full grain leather. It can also be used for leather board, vegetable tanned, semichrome leathers. Dytan VTW can easily replace 15 to 20% vegetable tannins with advantage. Suitable for all types of leather. It can be used 2 to 11 % depending on type of leather to be produced and result desired. Dytan VTW can also be used for the production of C.G. leather, nubuck, suedes, nappa, garment, upholstery etc where softness, with grain tightness and filling is desired. Dytan VTW promotes good buffing. It can be used 2 to 7% depending on type of leather to be produced.</p> |
| Dytan VSN | Naphthalene and vegetable complex tanning product | Beige powder | 94 ± 2 | 4.5-5.5 / Anionic | <p>Dytan VSN is tanning and retanning product imparts excellent dispersing, fullness, roundness, filling, better buffing, uniform and leveled color with fine grain. It helps in improving cutting area yield of leather. Dytan VSN imparts excellent dispersion to vegetable tanning material, syntans, dyes and fatliquoring agent there by improving the penetration of material and reducing the wastage in the effluent. Dytan VSN has good dispersing effect and hence can be used as pretanning agent and dispersing agent and there by imparts compactness with mellowness and helps in maintaining the feel and thickness. Dytan VSN is particularly suitable for retanning of wet blues to obtain fuller, fine and closed grain with excellent reactivity. It can also be used for vegetable tanned and semichrome leathers. Dytan VSN can be used with advantage as a pretanning agent for leathers to be vegetable tanned, it accelerates the uptake of tannins. It is suitable for all types of leather. Dytan VSN can be used in rechroming bath after rechroming to impart better fullness, filling, grain tightness and good buffing property. It can be used 2 to 11 % depending on type of leather to be produced and result desired.</p> |
| Dytan VSP | Phenol & vegetable complex tanning agent | Beige powder | 95 ± 2 | 4.0-5.5 / Anionic | <p>Dytan VSP is tanning and retanning product imparts excellent fullness, grain tightness, very good filling, and good buffing, uniform and leveled color with fine grain. Dytan VSP is particularly suitable for retanning of wet blues to obtain fuller, finer and closed grain with excellent reactivity. Dytan VSP imparts excellent dispersion to vegetable tanning material, syntans, dyes and fatliquoring agent there by improving the penetration of material and reducing the wastage in the effluent. Dytan VSP has good dispersing effect and hence can be used as pretanning agent and dispersing agent and there by imparts compactness with mellowness and helps in maintaining the feel and thickness. It can also be used for vegetable tanned and semichrome leathers. Dytan VSP can be used with advantage as a pretanning agent for leathers to be vegetable tanned, it accelerates the uptake of tannins. Suitable for all types of leather. Dytan VSP can be used in rechroming bath after rechroming to impart better fullness, filling and grain tightness. Dytan VSP can be used 2 to 10 % depending on type of leather to be produced and result desired.</p> |

Pretanning and Tanning Syntan - Synthetic Aldehyde based

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|------------------|---|---------------------|----------------|-------------------|--|
| Dytan SAL | Synthetic aldehyde with soft synthetic co-polymer | Light yellow liquid | 20 ± 2 | 6.0-8.0 / Anionic | Dytan SAL is specially engineered tanning and retanning agent imparts good fullness, grain tightness improved break with excellent lightfastness. Dytan SAL penetrates deep into leather especially in looser areas giving good filling effect, round body and feel throughout the cross-section of Leather. It helps in reducing looseness of chrome tanned and vegetable tanned leathers. Dytan SAL imparts uniform feel and fine break to the leather. Dytan SAL is most suitable pretanning and retanning agent for all types of leather where softness without looseness is required. As a pretanning agent it helps in further penetration of chemicals into leather resulting into fuller compact and tight break leather. It produces leather with uniform feel, good filling and fullness with nice mellow handle. Dytan SAL is suitable for chrome tanned, chrome retanned, vegetable tanned and semi chrome leathers for shoe upper softy nappa, bag leather, lining and high vegetable tanned leathers. It can be used 2 to 4 % depending on type of leather to be produced and result desired. |
| Dytan SAH | Synthetic aldehyde with synthetic co-polymer | Pourable liquid | 20 ± 2 | 3.0-4.0 / Anionic | Dytan SAH is specially engineered tanning and retanning agent imparts good fullness, grain tightness improved break with excellent lightfastness. Dytan SAH in chrome tanning and rechroming bath impart plumpness, body and round feel to the leather. When used as a pretanning syntan for vegetable tanned leather, it imparts good compactness and helps in reducing looseness of leather. Dytan SAH imparts uniform feel and fine break to the leather. Dytan SAH produces leather with uniform feel, good filling and fullness with nice mellow handle. Dytan SAH can also be used in chrome tanning bath to improve the substance and thickness of wet blue. It is suitable for chrome tanned, chrome retanned, vegetable tanned and semi chrome leathers. Dytan SAH can be used 2 to 5% depending on type of leather to be produced and result desired. |

Retanning Syntan- Chrome complex

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-------------------|---|-----------------|----------------|-------------------|--|
| Dycotan CN | Combination of chrome with aromatic sulphonic acid condensate | Greenish powder | 95 ± 2 | 3.5-5.0 / Anionic | Dycotan CN imparts good fullness, grain tightness, softness, leveling with round handle and buffing property. When Dycotan CN is used during rechroming, it imparts firmness, tightness, smoothness with mellowness and suppleness to the grain with better tensile strength. Neutralization could be done in the same bath, subsequent dyeing is more uniform and even. Dycotan CN is usually applied as versatile combination tanning agent for rechroming chrome tanned and semichroming EI-tanned leathers. Dycotan CN penetrates rapidly through the pelt producing leather with even distribution throughout the cross section of leather raising shrinkage temperature. Dycotan CN can be used 4 to 6 % depending on type of |

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| | | | | | leather to be produced and result desired. Suitable for all types of leather. |
| Dycotan CNFF | Chrome complexed with aromatic sulphonic acid condensate | Greenish powder | 95 ± 2 | 3.5-5.0 / Anionic | Dycotan CNFF is free of free formaldehyde product imparts good fullness, grain tightness, softness, leveling with round handle and buffing property. When Dycotan CNFF is used during rechroming, it imparts firmness, tightness, smoothness with mellowness and suppleness to the grain with better tensile strength. Neutralization could be done in the same bath, subsequent dyeing is more uniform and even. Dycotan CNFF is usually applied as versatile combination tanning agent for rechroming chrome tanned and semichroming EI-tanned leathers. Dycotan CNFF penetrates rapidly through the pelt producing leather with even distribution throughout the cross section of leather raising shrinkage temperature. Dycotan CNFF can be used 4 to 6 % depending on type of leather to be produced and result desired. Suitable for all types of leather. |
| Dycotan CNE | Combination of chrome with aromatic sulphonic acid condensate | Greenish powder | 95 ± 2 | 3.5-5.0 / Anionic | Dycotan CNE imparts good fullness, grain tightness, softness, leveling with round handle and buffing property. When Dycotan CNE is used during rechroming, it imparts firmness, tightness, smoothness with mellowness and suppleness to the grain with better tensile strength. Neutralization could be done in the same bath, subsequent dyeing is more uniform and even. Dycotan CNE is usually applied as versatile combination tanning agent for rechroming chrome tanned and semichroming EI-tanned leathers. Dycotan CNE penetrates rapidly through the pelt producing leather with even distribution throughout the cross section of leather raising shrinkage temperature. Dycotan CNE can be used 4 to 6 % depending on type of leather to be produced and result desired. Suitable for all types of leather. |
| Dycotan CP | Complex syntan derived from phenol sulphonic acid condensate and chrome | Greenish powder | 96 ± 2 | 2.7-4.8 / Anionic | Dycotan CP is free of free formaldehyde product penetrates rapidly through the pelt producing leather with even distribution throughout the cross section of leather raising shrinkage temperature. Dycotan CP is recommended for rechroming of chrome tanned leather and semi chroming of vegetable tanned leather. Dycotan CP imparts improved softness, fullness, tightness, grain smoothness with mellow handle. Dycotan CP enhances affinity of leather for anionic dyes and improves buffing properties. In retanning vegetable tanned leathers Dycotan CP imparts fine grain, more fullness and softer handle. Dycotan CP is suitable for light shade and white leathers and improves tensile strength. It can be used alone in rechroming. Dycotan CP can be used 4 to 6 % depending on type of leather to be produced and result desired. Suitable for all types of leather. |
| Dycotan CV | Vegetable and chrome complex syntan | Greenish powder | 96 ± 2 | 3.0-5.0 / Anionic | Dycotan CV is free of free formaldehyde unique product imparts good fullness, grain tightness, softness, leveling with round handle and better buffing property. When used in rechroming Dycotan CV imparts plumpness, firmness, grain tightness and excellent filling in loose areas and thereby better cutting yield. Dycotan CV is recommended |

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| | | | | | for rechroming of chrome tanned leather and semi chroming of vegetable tanned leather and imparts improved softness, fullness, tightness, grain smoothness with mellow handle. Dycotan CV enhances affinity of leather for anionic dyes and improves buffering properties. In retanning vegetable tanned leathers it imparts fine grain, more fullness and softer handle. Dycotan CV can be used 4 to 6 % depending on type of leather to be produced and result desired. Suitable for all types of leather. Dycotan CV is an excellent product for milled leathers, leather rechromed with Dycotan CV has good filling and uniform milling pattern. |
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Tailor made Vegetable Tanning Agent with Synthetic polymer

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-------------------|--|--------------|----------------|-------------------|---|
| Dycotan VA | Vegetable tanning agent with synthetic polymer | Brown liquid | 40 ± 2 | 6.5-8.5 / Anionic | Dycotan VA is pretanning, tanning and retanning product imparts excellent fullness, roundness, effective filling, uniform and leveled color with fine grain. It helps in improving cutting area yield of leather. Dycotan VA is particularly suitable for retanning of chrome tanned material to obtain fuller, fine and closed grain with excellent reactivity. It can also be used for vegetable tanned and semichrome leathers. Dycotan VA enables the best absorption in the leather, can be used alone or with other synthetic and natural retanning agents. Dycotan VA can be used 2 to 6 % depending on type of leather to be produced and result desired. |

Neutralizing Syntan

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-------------------|---|-----------------------|----------------|-------------------|---|
| Dycotan NL | Aromatic sulphonic acid condensate and aliphatic dicarboxylic acids | Amber to brown liquid | 40 ± 2 | 7.0-9.0 / Anionic | Dycotan NL is synthetic material for neutralizing, buffering, and complex forming action to impart particularly soft leathers with good grain tightness and enhances fullness. It has very good effect during dyeing process to result in a level uniform dyeing. Dycotan NL has mild affinity for chrome leathers, levels the grain surface resulting in smooth and tight grain and improves the penetration and distribution of subsequent retanning agents and thereby it adds uniformity of retannage and improves the fullness and handle of the finished leather. Dycotan NL helps to increase the uptake of tanning, retanning, vegetable tanning and synthetic tanning materials. It imparts uniform and controlled neutralization hence there is no chance for over neutralization and thereby reduces the chance of looseness and renders the leather with tight grain. Dycotan NL when used along with mimosa and other vegetable tanning extract enhances the uptake of the tannins by the leather. Dycotan NL is suitable for all types of full grain and corrected grain leathers. It can be used 1 to 3 % depending on type of leather to be produced and result desired. |

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| Dycotan NS | Aromatic naphthalene sulphonic acid condensate | Cream colored powder | 95 ± 2 | 7.0-8.0 / Anionic | Dycotan NS imparts uniform and controlled neutralization on chrome and vegetable tanned leathers. Dycotan NS is compatible with mineral tanning and ensures even penetration of tanning and retanning material, gives level & enhanced dyeing and fatliquoring. It reduces grain loading and acts as good leveling agent with better buffing property. Mild retanning, mild neutralizing and strong buffering action make it suitable for all types of leather. Dycotan NS when used along with mimosa and other vegetable tanning extract enhances the uptake of the tannins by the leather. Dycotan NS imparts good grain tightness with smooth grain and enhances fullness. Use of Dycotan NS in neutralization reduces chance of grain cracking. Suitable for all types of full grain and corrected grain leathers. It can be used 1 to 3 % depending on type of leather to be produced and result desired. |
| Dycotan NT | Aromatic sulphonic acid condensate and aliphatic dicarboxylic acids | Cream colored powder | 96 ± 2 | 6.5-7.5 / Anionic | Dycotan NT is synthetic material for neutralizing, buffering, and complex forming action, lowers the positive charge of the collagen chromium complex and thus levels the pronouncedly positive charge of chrome leather surface. Dycotan NT imparts particularly soft leathers with good grain tightness and enhances fullness. Dycotan NT imparts mild retanning property to leather. Dycotan NT has very good effect during dyeing process to result in a level uniform dyeing. Dycotan NT has mild affinity for chrome leathers, levels the grain surface resulting in smooth and tight grain and improves the penetration and distribution of subsequent retanning agents and thereby it adds uniformity of retannage and improves the fullness and handle of the finished leather. Dycotan NT helps to increase the uptake of tanning, retanning, vegetable tanning and synthetic tanning materials. Dycotan NT imparts uniform and controlled neutralization hence there is no chance for over neutralization and thereby reduces the chances of looseness and thereby renders the leather with tight grain. Dycotan NT when used along with mimosa and other vegetable tanning extract, it enhances the uptake of the tannins by the leather. Suitable for all types of chrome tanned and vegetable tanned, full grain and corrected grain leathers. Dycotan NT can be used 1 to 3 % depending on type of leather to be produced and result desired. |

Dye leveling, dispersing and Neutralizing Syntan

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-------------------|------------------------------------|----------------------|----------------|-------------------|--|
| Dycotan WP | Aromatic sulphonic acid condensate | Beige colored powder | 96 ± 2 | 7.0-9.0 / Anionic | Dycotan WP is synthetic material for dispersing, neutralizing, buffering, and complex forming action. It imparts particularly soft leathers with good grain tightness and enhances fullness. It has very good dispersing effect during dyeing process to result in a level uniform dyeing. Dycotan WP has mild affinity for chrome leathers, levels the grain surface resulting in smooth and tight grain and improves the penetration and distribution of subsequent retanning agents and thereby it adds uniformity of retannage and improves the fullness and handle of the finished leather. |

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| | | | | | It helps to disperse and increase the uptake of tanning, retanning, vegetable tanning and synthetic tanning materials. It imparts uniform and controlled dispersion hence there is no chance for over neutralization and thereby reduces the chance of looseness and renders the leather with tight grain. Dycotan WP maintains better ph and uniform charge throughout the surface of leather which causes uniform dyeing, retanning and fatliquoring. Dycotan WP when used along with mimosa and other vegetable tanning extract enhances the uptake of the tannins by the leather. Suitable for all types of full grain and corrected grain leathers. It can be used 1 to 3 % depending on type of leather to be produced and result desired. |
| Dycotan DL | Aromatic sulphonic acid condensate | Beige colored powder | 96 ± 2 | 7.0-9.0 / Anionic | Dycotan DL is synthetic material for dispersing, neutralizing, buffering, and complex forming action. It imparts particularly soft leathers with good grain tightness and enhances fullness. It has very good dispersing effect during dying process to result in a level uniform dyeing. Dycotan DL has mild affinity for chrome leathers, levels the grain surface resulting in smooth and tight grain and improves the penetration and distribution of subsequent retanning agents and thereby it adds uniformity of retannage and improves the fullness and handle of the finished leather. It helps to disperse and increase the uptake of tanning, retanning, vegetable tanning and synthetic tanning materials. It imparts uniform and controlled dispersion hence there is no chance for over neutralization and thereby reduces the chance of looseness and renders the leather with tight grain. Dycotan DL maintains better ph and uniform charge throughout the surface of leather which causes uniform dyeing, retanning and fatliquoring. Dycotan DL when used along with mimosa and other vegetable tanning extract enhances the uptake of the tannins by the leather. Suitable for all types of full grain and corrected grain leathers. It can be used 1 to 3 % depending on type of leather to be produced and result desired. |

Acrylic Syntan

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-----------------------|---------------------------|--------------------|----------------|-------------------|---|
| Dycryltan 1199 | Unique acrylic co-polymer | Light amber liquid | 40 ± 2 | 6.5-8.5 / Anionic | Imparts very good grain tightness with excellent grain break, strength, dye value and fullness to all types of full grain and corrected grain leathers. Leathers produced with Dycryltan 1199 has very good filling in belly, flank and shank area. Amphoteric in nature, it can be used at any ph between 3.60 to 6.80. Dycryltan 1188 has fine particle size and hence penetrates well in to leather thereby imparts filling in loose portion and reduces the chance of grain cracking resulting in to grain flatness with uniform fullness Dycryltan 1199 can also be used for light weight garment and upholstery leathers to impart excellent strength and aging properties. Suitable for all types of chrome tanned and vegetable tanned leathers. It can also be used for water proof leathers. Dycryltan 1188 can be used between to 2 to 8 % depending on type of leather to be produced and result desired. |

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| Dycryltan DRE-40 | Unique acrylic co-polymer | Light amber liquid | 40 ± 2 | 6.5-8.5 / Anionic | Imparts very good grain tightness with excellent grain break, strength, dye value and fullness to all types of full grain and corrected grain leathers. Leathers produced with Dycryltan DRE-40 has very good filling in belly, flank and shank area. Amphoteric in nature, it can be used at any ph between 3.60 to 6.80. Dycryltan DRE-40 has fine particle size and hence penetrates well in to leather thereby imparts filling in loose portion and reduces the chance of grain cracking resulting in to grain flatness with uniform fullness Dycryltan DRE-40 can also be used for light weight garment and upholstery leathers to impart excellent strength and aging properties. Suitable for all types of chrome tanned and vegetable tanned leathers. It can also be used for water proof leathers. Dycryltan DRE-40 can be used between to 2 to 8 % depending on type of leather to be produced and result desired. |
| Dycryltan 1177 | Unique acrylic co-polymer | Light amber liquid | 35 ± 2 | 6.5-8.5 / Anionic | Imparts very good grain tightness with improved break, strength, dye value and fullness to all types of full grain and corrected grain leathers. Dycryltan 1177 has fine particle size and hence penetrates well in to leather thereby imparts filling in loose portion and reduces the chance of grain cracking resulting to grain flatness with uniform fullness. Amphoteric in nature, it can be used at any ph between 3.60 to 6.80. Dycryltan 1177 can also be used for light weight garment and upholstery leathers to impart excellent strength and aging properties. Suitable for all types of chrome tanned and vegetable tanned leathers. It can be used between to 2 to 8 % depending on type of leather to be produced and result desired. |
| Dycryltan 1188 | Very soft acrylic polymer | Light yellow liquid | 30 ± 2 | 5.0-6.5 / Anionic | Dycryltan 1188 imparts excellent filling, very good uniform softness and grain tightness with improved break, good fullness and fluffy handle. Dycryltan 1188 helps in uniform milling to form uniform pattern. Leather produced with it has very good filling, light weight and very good light fastness. Suitable for all types of upper, softy, nappa, garment, & upholstery leather. Dycryltan 1188 can be used 2 to 11 % for all types of leathers depending on type of leather to be produced and result desired. |
| Dycryltan CRE-60 | Very soft acrylic polymer | Light yellow liquid | 40 ± 2 | 6.0-8.5 / Anionic | Dycryltan CRE-60 imparts excellent filling, very good uniform softness and grain tightness with improved break, good fullness and fluffy handle. Dycryltan CRE-60 helps in uniform milling to form uniform pattern. Leather produced with it has very good filling, light weight and very good light fastness. Suitable for all types of upper, softy, nappa, garment, & upholstery leather. Dycryltan CRE-60 can be used 2 to 11 % for all types of leathers depending on type of leather to be produced and result desired. |
| Dycryltan 840 | Multi-Carboxylic polymer tanning and retanning agent | Creamy milky liquid | 30 ± 2 | 2.5-4.0 / Anionic | Produces leather with improved grain tightness and smoothness with excellent filling, fullness and plumping. Dycryltan 840 imparts improved grain break and outstanding light fastness. Since it imparts good filling effect in loose areas thereby imparts better cutting value to the leather. Depending on application softer to firmer leather |

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| | | | | | can be produced with Dycryltan 840 . It has tanning and retanning properties and will improve shrinkage temperature of leather. Amphoteric in nature it can be used from pH 3.5 to 6.0. Suitable for all types of upper, softy, nappa, garment, upholstery leather and industrial leathers. It can be used from 2 to 8 % depending on type of leather to be produced and result desired. |
| Dycryltan 940 | Multi-Carboxylic polymer tanning and retanning agent | Creamy milky liquid | 40 ± 2 | 2.5-3.5 / Anionic | Produces leather with improved grain tightness and smoothness with excellent filling, fullness and plumping. Dycryltan 840 imparts improved grain break and outstanding light fastness. Since it imparts good filling effect in loose area thereby imparts better cutting value to the leather. Depending on application softer to firmer leather can be produced with Dycryltan 940 . It has tanning and retanning properties and will improve shrinkage temperature of leather. Amphoteric in nature it can be used from pH 3.5 to 6.0. Suitable for all types of upper, softy, nappa, garment, upholstery leather and industrial leathers. It can be used from 2 to 8 % depending on type of leather to be produced. |
| Dycryltan 1190 | Special acrylic co-polymer | Light amber liquid | 40 ± 2 | 7.0-9.0 / Anionic | Imparts excellent filling in loose areas, flat, tight grain break with softness, excellent dispersibility with high uptake, low fogging, excellent dye leveling and light fastness. Dycryltan 1190 is excellent dispersing agent for water proof fatliquor & also disperses syntans and vegetable tannins and thereby reduces the process time and improves the bath exhaustion and thereby reduces the chemical wastage. Since it imparts good filling effect thereby imparts better cutting value to the leather. It can also replace TARA with better lightfastness. Leathers produced with Dycryltan 1190 have very good buffing property and has good embossing and milling effect. Dycryltan 1190 can be used as neutralizing agent with better properties. Best application at PH 4.0 -5.5, Suitable for upholstery, waterproof, upper, softy, nappa, garment, split suedes and all types of leather. It can be used 2 to 8 % depending on type of leather to be produced and result desired. |
| Dycryltan 1170 | Special acrylic co-polymer tanning agent | Light yellow liquid | 30 ± 2 | 4.0-5.0 / Anionic | Dycryltan 1170 can be used as pretanning, tanning and retanning agent for all types of leather. Dycryltan 1170 has tanning capability and hence can be used as replacement for phenolic syntans and improves shrinkage temperature. Imparts softness, mellowness, plumpness excellent grain tightness with fine smooth grain and improved grain strength. It is useful for mellow, lightweight and heavyweight shoe upper leather. It imparts good dispersing for vegetable tanning system and promotes uniform dye shades and buffability. Suitable for all types of leather. It can be used 2 to 7 % depending on type of leather to be produced and result desired. |
| Dycryltan 1166 | Special acrylic filler and whitener | Milky liquid | 40 ± 2 | 9.0-10 / Anionic | Dycryltan 1166 is specially engineered nonmineral hollow sphere polymer syntan for excellent drum filling and whitening purpose resulting into better upgraded leather surface with better cutting value. Dycryltan 1166 imparts excellent filling with flat and smooth grain along with bright clean dye shade. Dycryltan 1166 helps in hiding the grain defects of crust leather, when used for goat and seep leather |

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| | | | | | it helps in obtaining finer, compact and smoother grain, when used for nubuck and suedes it helps in buffing and upgrading the surface and fineness of nap. As drum filler it does not harden the surface of leather and hence there is no risk in using it. Suitable for upholstery, upper, softy, nappa, garment, white leather and all types of leather. It can be used 1 to 5 % depending on type of leather to be produced and result desired. |
| Dycryltan MR-78 | Monomeric, heterocyclic, N-methylol compound | Light yellow liquid | 40 ± 2 | 4.5-5.5 / Anionic | Dycryltan MR-78 is specially designed to impart good grain tightness, elastic fine grain with smooth appearance and strong filling effect. Dycryltan MR-78 helps in getting round body without hardening the leather feel. For obtaining optimum result Dycryltan MR-78 is recommended to be used in rechroming bath between pH range 3.5-4.5. It does not affect the dye shades. Dycryltan MR-78 can be used 3 to 5 % depending upon the desired result. It is suitable for all types of leather. |
| Dycryltan UR-88 | Carbamide formaldehyde condensation product | Pale yellow liquid | 35 ± 2 | 6.5-7.5 / Cationic | Dycryltan UR-88 imparts excellent grain tightness with fine grain formation, reduces stretch of the leather. It imparts short and even nap to nubuck and suedes. It improves the grain break and helps to increase tensile strength of leather. Use of Dycryltan UR-88 in chrome tanning and rechroming operation gives good tightness and plumpness to the leather. When used after fatliquoring ensures proper fixation of fatliquors. It can be used 2-5 % depending on type of leather to be produced. Suitable for upper, softy, nappa, bag leather, glaze etc |
| Dycryltan DR-68 | DCDA based resin retanning agent | Brown liquid | 50 ± 2 | 8.5-9.5 / Anionic | Dycryltan DR-68 imparts good filling to looser areas resulting fine tight grain with soft handle. It also gives good dyeing properties and improves buffing property of nubuck and suede leathers. Dycryltan DR-68 is fixed under acid condition and has selected filling action, which improves the more open structured area of the leather. This results in leather with fullness, tight flexible grain and uniform softness making it very suitable retanning material for the production of full grain and corrected grain leather. It can also be used for vegetable tanned leather, it imparts round feel and good grain tightness without tightening feel of leather. It imparts fine uniform milled grain to milled leathers. It can be used after neutralization in retanning of mineral tanned, vegetable tanned and combination tanned leathers. Suitable for all types of leather. It can be used 2-6 % depending on type of leather to be produced. |

Special Polymeric compound

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|------------------------|----------------------------|-------------|----------------|-------------------|---|
| Dycryltan RT-76 | Special Polymeric compound | White paste | 40 ± 2 | 4.0-6.0 / Anionic | Dycryltan RT-76 is specially designed polymeric compound for retanning of splits and C.G. types of leather where compactness and short nap is required. It imparts good compactness by filling in loose fiber structure thereby increase tensile strength and stitch tear strength. It helps in reducing the looseness of the leather from grain side and flesh side thereby reducing trimming and increases area yield. When used for splits it imparts excellent compactness |

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| | | | | | and better buffing property resulting into fine nap for suedes and also better finishing of splits. Dycryltan RT-76 yields fuller and compact bellies along with good roundness throughout the leather. It helps to overcome double layer problem of sheep leather. When Dycryltan RT-76 is used with fatliquors it penetrates deep and imparts good body. In splits Dycryltan RT-76 should be given in rechroming stage and with or after fatliquoring of the leather before fixing. After use split should be vacuum dried or toggle dry then plate and buff, resulting split with very good body with short nap. It can be used 2 to 4 % for splits and 1 to 2 % for corrected grain leathers. Suitable for upper, nappa, split, nubuck, suede, and split upholstery. |
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Lubricated Polymer Syntan

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-------------------------|-------------------------------|-------------------------------|----------------|-------------------|--|
| Dycryltan LAS-68 | Lubricated polymeric compound | Pale yellow to brownish paste | 50 ± 2 | 7.0-9.5 / Anionic | Dycryltan LAS-68 is specially designed polymeric compound imparts softness with grain tightness and improved break. Suitable for retanning of F.G. and C.G. leathers where grain compactness, filling, plumpness and good buffing are required. Dycryltan LAS-68 imparts good grain compactness by filling in loose fiber structure thereby increase tensile strength and stitch tear strength. It helps in reducing the looseness of the leather and increases area yield. It should be used after retanning, either alone or with fatliquors. Dycryltan LAS-68 yields fuller and compact bellies along with good roundness throughout the leather. When Dycryltan LAS-68 is used with fatliquors it penetrates deep and imparts good body. The product has limited shelf life. It can be used 2 to 4 % for all types of leather. Suitable for upper, nappa, garment, split, nubuck, suede, and split upholstery. |

Replacement Syntan

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|---------------------|---|-------------------|----------------|-------------------|--|
| Dysyntan RTC | Phenol-naphthalene condensation product | Pale brown liquid | 50 ± 2 | 4.5-6.5 / Anionic | Dysyntan RTC imparts mellow feel with excellent fullness. It can be used for retannage of softy uppers, nappa, garment leathers, upholstery etc Dysyntan RTC in addition improves the tightness and fineness of the grain with mellow handle. The good dispersing effect of Dysyntan RTC results in a deeper and more uniform penetration of the other tanning (chrome & vegetable) and retanning agents. It imparts good body, compact grain and very good fullness. Dysyntan RTC is designed to give mild filling and ensures smoothness and tightness of grain. When used in rechroming stage it imparts additional fullness, roundness, and body. Since it is liquid syntan it can be added directly to the drum without prior dissolving, and it penetrates much faster than powder syntan hence it imparts better properties than powder syntans. Dysyntan RTC is suitable for all types of leather. It can be used 2-6 % depending on type of leather to be produced and desired result. |

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| Dysyтан PR-78 | Phenol condensation product | Pale brown liquid | 50 ± 2 | 4.5-6.5 / Anionic | Dysyтан PR-78 imparts a high degree of suppleness and in addition improves the tightness and fineness of the grain with mellow handle. The good dispersing effect of Dysyтан PR-78 results in a deeper and more uniform penetration of the other tanning (chrome & vegetable) and retanning agents. It imparts good body, compact grain and very good fullness. Dysyтан PR-78 is designed to give mild filling and ensures smoothness and tightness of grain. When used in rechroming stage it imparts additional fullness, roundness, and body. Since Dysyтан PR-78 is liquid syntan Dysyтан PR-78 can be added directly to the drum without prior dissolving, and it penetrates much faster than powder syntan hence it imparts better properties than powder syntans. Dysyтан PR-78 is suitable for all types of leather. It can be used 2-7 % depending on type of leather to be produced. |
| Dysyтан PIS | Synthetic condensation product | Pale cream colored powder | 96 ± 2 | 5.5-7.5 / Anionic | Dysyтан PIS is free of free formaldehyde synthetic replacement tanning and retanning agent imparts a high degree of suppleness and in addition improves the tightness and fineness of the grain with mellow handle. The good dispersing effect of Dysyтан PIS results in a deeper and more uniform penetration of the chrome & vegetable tanning and retanning agents. It imparts good body, compact grain and very good fullness. Dysyтан PIS is designed to give mild filling and ensures smoothness and tightness of grain. When Dysyтан PIS is used in rechroming stage it imparts additional fullness, roundness, and body. Dysyтан PIS prevents sludge formation in vegetable tan liquor and makes color of the leather much lighter and cleaner. Dysyтан PIS is suitable for all types of full grain and corrected grain leather. Dysyтан PIS can be used 2-6 % depending on type of leather to be produced. |
| Dysyтан PI | Phenol condensation product | Pale colored powder | 96 ± 2 | 3.0-5.5 / Anionic | Dysyтан PI is free of free formaldehyde synthetic replacement tanning and retanning agent imparts a high degree of suppleness and in addition improves the tightness and fineness of the grain with mellow handle. The good dispersing effect of Dysyтан PI results in a deeper and more uniform penetration of the chrome & vegetable tanning and retanning agents. It imparts good body, compact grain and very good fullness. Dysyтан PI is designed to give mild filling and ensures smoothness and tightness of grain. When used in rechroming stage it imparts additional fullness, roundness, and body. Dysyтан PI prevents sludge formation in vegetable tan liquor and makes color of the leather much lighter and cleaner. Dysyтан PI is suitable for all types of full grain and corrected grain leathers. Dysyтан PI can be used 2-6% depending on type of leather to be produced and result desired. |
| Dysyтан PLE | Polymer condensation product | Pale colored powder | 96 ± 2 | 5.0-7.5 / Anionic | Dysyтан PLE is free of free formaldehyde synthetic replacement tanning and retanning agent for white and pastel shade leathers, it imparts a high degree of suppleness and in addition improves the tightness and fineness of the grain with mellow handle and good lightfastness. Dysyтан PLE imparts good body, compact grain and very good fullness. Dysyтан PLE is designed to give mild filling and ensures smoothness and tightness of grain. Dysyтан PLE |

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| | | | | | prevents sludge formation in vegetable tan liquor and makes color of the leather much lighter and cleaner. Dysyтан PLE is suitable for all types of full grain and corrected grain chrome tanned and vegetable tanned leathers. Dysyтан PLE can be used 2-8% depending on type of leather to be produced and result desired. |
| Dysyтан PS-99 | Synthetic pretanning agent | Yellow Brown powder | 93 ± 2 | 4.5-6.5 / Anionic | Dysyтан PS-99 is pretanning product imparts excellent penetration fullness, roundness, filling, uniform and leveled color with fine grain. It helps in improving cutting area yield of leather. Dysyтан PS-99 is particularly suitable for use as petanning syntan for vegetable tanned leathers and retanning of wet blues to obtain fuller, fine and closed grain with excellent reactivity. Dysyтан PS-99 can be used with advantage as a pretanning agent for leathers to be vegetable tanned; Dysyтан PS-99 accelerates the uptake of tannins. In Vegetable tanned leathers, Dysyтан PS-99 helps to impart bright color to the leather. Dysyтан PS-99 can easily replace 25 to 30% vegetable tannins with advantage. Suitable for all types of leather. Dysyтан PS-99 can be used 2 to 11 % depending on type of leather produced and result desired. |

Resin and Filling Syntan

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-----------------------|--|--------------------|----------------|------------------|--|
| Dysyтан RS-77W | Condensation product based on Polymer like dicyanadi-amide | Pale Yellow powder | 96 ± 2 | 8.0-10 / Anionic | Dysyтан RS-77W is free of free formaldehyde resin syntan for white and pastel shade leathers, it imparts selective filling and fills the loosely structured parts of the leather. Gives good grain tightness and fullness to the leathers. Leathers treated with Dysyтан RS-77W have good leveled dyeing, better buffing and finishing. Dysyтан RS-77W produces well filled leather especially in looser areas of the skin i.e. belly and flanks. Dysyтан RS-77W produces fuller leather with fine tight flexible grain retaining chrome leather characteristics. Suitable for all types of full grain and corrected grain leather, chrome tanned and vegetable tanned leathers. It increases cutting yield of leather. Dysyтан RS-77W can be used 2 to 8 % depending on type of leather produced and result desired. |
| Dysyтан RS-77 | Condensation product based on resin like dicyanadi-amide | Pale brown powder | 96 ± 2 | 8.0-10 / Anionic | Dysyтан RS-77 is free of free formaldehyde resin syntan imparts selective filling and fills the loosely structured parts of the leather. Gives good grain tightness and fullness to the leathers. Leathers treated with Dysyтан RS-77 have good leveled dyeing, better buffing and finishing. Dysyтан RS-77 produces well filled leather especially in looser areas of the skin i.e. belly and flanks. Dysyтан RS-77 produces fuller leather with fine tight flexible grain retaining chrome leather characteristics. Suitable for all types of full grain and corrected grain leather, chrome tanned and vegetable tanned leathers. It increases cutting yield of leather. Dysyтан RS-77 can be used 2 to 6 % depending on type of leather produced and result desired. |
| Dysyтан DFS-35 | Condensation product based on | Pale brown powder | 96 ± 2 | 8.0-10 / Anionic | Dysyтан DFS-35 is free of free formaldehyde resin syntan imparts selective filling and fills the loosely structured parts of the leather. Gives good grain tightness and fullness to the |

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| | resin like dicyanadi-amide | | | | leathers. Leathers treated with Dysyntan DFS-35 have good leveled dyeing, better buffing and finishing. Dysyntan DFS-35 produces well filled leather especially in looser areas of the skin i.e. belly and flanks. Dysyntan DFS-35 produces fuller leather with fine tight flexible grain retaining chrome leather characteristics. Suitable for all types of full grain and corrected grain leather, chrome tanned and vegetable tanned leathers. It increases cutting yield of leather. Dysyntan DFS-35 can be used 2 to 6 % depending on type of leather produced and result desired. |
| Dysyntan FS-66 | Retanning agent based on resin like melamine | Pale brown powder | 95 ± 2 | 5.5-7.5 / Anionic | Dysyntan FS-66 is free of free formaldehyde resin syntan imparts good filling to the looser areas resulting fine tight grain with soft handle. It also gives good dyeing properties and improves buffing property of nubuck and suede leathers. Dysyntan FS-66 is fixed under acid condition and has selected filling action, which improves the more open structured areas of leather. This results in the leather with fullness, tight flexible grain and uniform softness making it a very suitable retanning material for the production of softy full grain leather. Dysyntan FS-66 can also be used for the production of C.G. leather, nubuck, suedes, nappa, garment etc where softness, with grain tightness and filling is desired. It increases cutting yield of leather. Dysyntan FS-66 promotes level dyeing and good buffing. It can be used 2 to 7% depending on type of leather to be produced. |
| Dysyntan RS-55 | Condensation product based on resin like dicyanadi-amide | Pale brown powder | 96 ± 2 | 8.0-9.5 / Anionic | Dysyntan RS-55 is free of free formaldehyde product imparts selective filling in the loosely structured parts of the leather mainly bellies and neck portion. Gives good grain tightness and fullness to the leathers. Leathers treated with Dysyntan RS-55 have good leveled dyeing, better buffing and finishing. Dysyntan RS-55 produces well filled leather especially in looser areas of the skin i.e. belly and flanks. Dysyntan RS-55 produces fuller leather with fine tight flexible grain retaining chrome leather characteristics. Suitable for all types of full grain and corrected grain leather, chrome tanned and vegetable tanned leathers. It increases cutting yield of leather. Dysyntan RS-55 can be used 2 to 6 % depending on type of leather produced and result desired. |
| Dysyntan NS-85 | Based on nitrogen containing resin filling product | Pale brown powder | 95 ± 2 | 5.0-7.0 / Anionic | Dysyntan NS-85 is free of free formaldehyde product, it imparts good filling to the looser areas resulting fine tight grain with soft handle. It also gives good dyeing properties and improves buffing property of nubuck and suede leathers. Dysyntan NS-85 is fixed under acid condition and has selected filling action, which improves the more open structured areas of leather. This results in the leather with fullness, tight flexible grain and uniform softness making it a very suitable retanning material for the production of softy full grain leather. It increases cutting yield of leather. Dysyntan NS-85 can also be used for the production of C.G. leather, nubuck, suedes, nappa, garment etc where softness, with grain tightness and filling is desired. It promotes level dyeing and good buffing. It can be used 2 to 8%. |

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|-----------------------|---|--------------------|--------|-------------------|---|
| Dysyntan RS-12 | Condensation product based on Resins & Polymers | Pale Yellow powder | 96 ± 2 | 7.0-9.0 / Anionic | Dysyntan RS-12 is free of free formaldehyde product imparts selective filling in the loosely structured parts of the leather mainly bellies and neck portion. Gives good grain tightness and fullness to the leathers. Leathers treated with Dysyntan RS-12 have good leveled dyeing, better buffing and finishing. Dysyntan RS-12 produces well filled leather especially in looser areas of the skin i.e. belly and flanks. Dysyntan RS-12 produces fuller leather with fine tight flexible grain retaining leather characteristics. Suitable for all types of full grain and corrected grain leather, chrome tanned and vegetable tanned leathers. It increases cutting yield of leather. Dysyntan RS-12 can be used 2 to 6 % depending on type of leather produced and result desired. |
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Drum Protein Filler

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|------------------|-----------------------------------|-------------------|----------------|-------------------|---|
| Dyfill PF | High quality Protein based filler | Pale brown powder | 95 ± 2 | 5.5-7.5 / Anionic | Dyfill PF imparts excellent uniformity throughout the leather, together with filling action it imparts very good fullness, roundness, a tight break and soft handle. Dyfill PF is reactive protein filler for use on softer tannages including garment leather. It imparts soft fullness, good roundness, tight break and soft silky feel, uniform look, good buffing properties and improved finishing. Dyfill PF can be used for almost all type of leather, chrome tanned, vegetable tanned and combination tanned, either full grain or corrected grain leathers. The best way to apply Dyfill PF is to convert the powder to slurry by adding water and mixing well and add to the skin and run for 20 minutes. Before the addition of fatliquor. Dyfill PF imparts maximum filling in the loosest part of the leather i.e. belly and flank area ensuring tight grain. It can be added as dry powder. It can be used 2 to 4 % depending on type of leather produced and result desired. |
| Dyfill LF | High Quality Protein based filler | Pale brown powder | 95 ± 2 | 5.5-7.5 / Anionic | Dyfill LF is protein type filler for use on softer & firmer tannages including garment leather. It imparts softness, fullness, good roundness, tight break and soft silky feel, uniform look, good buffing properties and improved finishing. Dyfill LF can be used for almost all type of leather, chrome tanned, vegetable tanned and combination tanned, either full grain or corrected grain leathers. Dyfill LF imparts excellent uniformity throughout the leather, together with filling action it imparts very good fullness, roundness, a tight break and soft handle. The best way to apply Dyfill LF is to convert the powder to slurry by adding water and mixing well and add to the skin and run for 20 minutes. Before the addition of fatliquor. Dyfill LF imparts maximum filling in the loosest part of the leather i.e. belly and flank area ensuring tight grain. It can be added as dry powder. It can be used 2 to 4 % depending on type of leather to be produced. |

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|-------------------|----------------------|-------------------|--------|-------------------|--|
| Dyfill LFS | Protein based filler | Pale brown powder | 95 ± 2 | 5.5-7.5 / Anionic | Dyfill LFS is protein type filler for use on softer tannages including garment leather. It imparts softness, fullness, good roundness, tight break and soft silky feel, uniform look, good buffing properties and improved finishing. Dyfill LFS can be used for almost all type of leather, chrome tanned, vegetable tanned and combination tanned, either full grain of corrected grain leathers. Dyfill LFS imparts excellent uniformity throughout the leather, together with filling action it imparts very good fullness, roundness, a tight break and soft handle. The best way to apply Dyfill LFS is to convert the powder to slurry by adding water and mixing well and add to the skin and run for 20 minutes. Before the addition of fatliquor. Dyfill LFS imparts maximum filling in the loosest part of the leather i.e. belly and flank area ensuring tight grain. It can be added as dry powder. It can be used 2 to 5 % depending on type of leather to be produced. |
| Dyfill LFC | Protein based filler | Pale brown powder | 95 ± 2 | 5.5-7.5 / Anionic | Dyfill LFC is protein type filler for use on softer tannages including garment leather. It imparts softness, fullness, good roundness, tight break and soft silky feel, uniform look, good buffing properties and improved finishing. Dyfill LFC can be used for almost all type of leather, chrome tanned, vegetable tanned and combination tanned, either full grain of corrected grain leathers. Dyfill LFC imparts excellent uniformity throughout the leather, together with filling action it imparts very good fullness, roundness, a tight break and soft handle. The best way to apply Dyfill LFC is to convert the powder to slurry by adding water and mixing well and add to the skin and run for 20 minutes. Before the addition of fatliquor. Dyfill LFC imparts maximum filling in the loosest part of the leather i.e. belly and flank area ensuring tight grain. It can be added as dry powder. It can be used 2 to 6 % depending on type of leather to be produced. |

Compact Syntan For Furniture Upholstery

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-----------------------|----------------------------|-------------------|----------------|-------------------|---|
| Dysyntan CS-FU | Synthetic and Polymer Base | Pale Brown powder | 95 ± 2 | 5.5-7.5 / Anionic | Dysyntan CS-FU is free of free formaldehyde synthetic & polymer syntan imparts good filling to the looser areas resulting fuller and fine tight grain with soft handle. It also gives good dyeing properties and improves buffing property. Dysyntan CS-FU is fixed under acid condition and has selected filling action, which improves the more open structured areas of leather. Dysyntan CS-FU helps in producing leather with superior embossing, print retention and milling properties, The leather retanned with Dysyntan CS-FU results in the leather with fullness, tight flexible grain and uniform softness making it a very suitable retanning material for the production of upholstery leather. Dysyntan CS-FU can also be used for the production of C.G. or full grain upholstery leather, where softness and filling is desired. It increases cutting yield of leather. Dysyntan CS-FU promotes level dyeing and good buffing. It can be used 5 to 10% depending on type of leather to be produced. |

Syntan and Fatliquor Fixing Agent

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-------------------|------------------|------------------------|----------------|--------------------|---|
| Dyifix DSF | Complex compound | Clear colorless liquid | 30 ± 2 | 2.5-3.5 / Cationic | Dyifix DSF imparts fixing property to syntans, vegetable tannins and fatliquors and thereby helps in bath exhaustion. It imparts partial fixation to dyes, for better dye fixation it is always recommended to use formic acid before Dyifix DSF . Along with fixing it imparts mild tanning and retanning action and thereby improves the break of the leather. Dyifix DSF also imparts very good buffing property. When used in rechroming it reduces the ph of the wet blue and makes the pelt suitable for rechroming. Dyifix DSF can be used after pickling at ph 3.0 and then followed by chrome tanning resulting into better uptake of chrome, flat and uniform wet blue. Dyifix DSF imparts denser and tighter grain, brilliant and deeper dye shades and excellent nap for suede and nubuck. Suitable for all types of leather including white leather. It can be used 1 to 4 %. |

Wool Grease Based Fatliquor

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|----------------------|--|---------------------------|----------------|-------------------|---|
| Dyimol WGS-61 | Specially treated wool grease with synthetic oil | Dark brown viscous liquid | 50 ± 2 | 8.0-9.0 / Anionic | Dyimol WGS-61 imparts excellent feel to the leather with very good softness. It imparts nourished feel, soft and full handle to leather. It reduces chances of grain crackness in corrected grain and full grain leathers. It imparts lubrication through out the cross section of leather and reduces water absorption in leather. Leather fatliquored with Dyimol WGS-61 has good burnishing effect. It imparts round body with mellow handle and supple feel. Dyimol WGS-61 has good compatibility with other synthetic tanning agents, it is not recommended with chrome salts. Dyimol WGS-61 has the capability to reduce wetability by water due to peculiar property of lanolin. It is ideal fatliquor for surface lubrication, core softness and nice warm handle. It is always preferable to use hot water for making emulsion of Dyimol WGS-61 . Suitable for all types of chrome tanned and vegetable tanned leathers, can be used for all types of full grain and corrected grain leathers. It can be used 1-5 % depending on type of leather to be produced and result desired. |

Fish Oil Based Fatliquor

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|----------------------|--------------------|--------------|----------------|-------------------|--|
| Dyimol FSO-80 | Sulphited fish oil | Brown liquid | 60 ± 2 | 7.5-8.5 / Anionic | Dyimol FSO-80 forms very stable emulsion in cold and warm water. It has good affinity towards leather and imparts good softness with good body and increased fullness. Once fixed with the fiber it does not migrate and thus produces leather with fine break. Dyimol FSO-80 penetrates well in to the leather structure with good softness, pleasant warm surface touch with good tear strength. When Dyimol FSO-80 is used in the main fatliquor for softer leather it imparts |

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| | | | | | inner softness with warm touch. Dyimol FSO-80 can be used in the manufacturing of leather board to impart good lubrication, strength, and helps to avoid crackness as it retains moisture. Suitable for all types of chrome tanned and vegetable tanned leathers, can be used for all types of full grain and corrected grain leathers. It can be used 2-6 % depending on type of leather to be produced and result desired. |
| Dyimol FSO-90 | Sulphited fish oil with synthetic softener | Brown liquid | 80 ± 2 | 7.5-8.5 / Anionic | Dyimol FSO-90 forms very stable emulsion in cold and warm water. It has good affinity towards leather and imparts good softness with good body and increased fullness. Once fixed with the fiber it does not migrate and thus produces leather with fine break. Dyimol FSO-90 penetrates well in to the leather structure with good softness, pleasant warm surface touch with good tear strength. When Dyimol FSO-90 is used in the main fatliquor for softer leather it imparts inner softness with warm touch. Dyimol FSO-90 can be used in the manufacturing of leather board to impart good lubrication, strength, and helps to avoid crackness as it retains moisture. Suitable for all types of chrome tanned and vegetable tanned leathers, can be used for all types of full grain and corrected grain leathers. It can be used 2-6 % depending on type of leather to be produced and result desired. |

Compact Fatliquor

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-------------------|---|-----------------------|----------------|--------------------|--|
| Dyimol CFA | Unique combination of synthetic oil, vegetable oil, wool grease, fish oil and phospholipids | Brownish pasty liquid | 60 ± 2 | 7.5-9..5 / Anionic | Dyimol CFA is specially designed to impart very good uniform softness throughout the whole substance. Dyimol CFA produces fuller leather with improved grain tightness and round body. Dyimol CFA is unique and ideal product for nappa, upper, bag, lining, industrial and vegetable tanned leather. When Dyimol CFA imparts good fullness, round body, uniform softness along with excellent buffing property. Suitable for all types of full grain and corrected grain leather. It can be used 2-12 % depending on type of leather to be produced and result desired. |

Neetsfoot oil based Fatliquor

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|----------------------|------------------------------|-----------------------|----------------|--------------------|---|
| Dyimol SNO-94 | Replacement of neetsfoot oil | Brown pourable liquid | 60± 2 | 6.5-7..5 / Anionic | Dyimol SNO-94 synthetic neetsfoot oil with very good lightfastness. Dyimol SNO-94 imparts silky nourished feel with tight grain and good tensile strength. Dyimol SNO-94 imparts outstanding softness and lubricating effect on the resultant leathers which can be finished without any difficulty. Dyimol SNO-94 has good surface lubricating ability gives leather pleasant waxy feel while enhancing the overall fatliquoring effect as well as grain crack resistance with grain flexibility. Dyimol SNO-94 can be used in the manufacturing of leather board to impart good lubrication, strength, and helps to avoid crackness as it retains moisture. Suitable for all types of chrome tanned and vegetable tanned |

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| | | | | | leather i.e. upper, nubuck and industrial leathers. It can be used 1-4 % depending on type of leather to be produced and result desired. |
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Sperm oil based Fatliquor

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|----------------------|--------------------------|--------------|----------------|-------------------|---|
| Dyimol SSO-97 | Replacement of Sperm oil | Brown liquid | 60± 2 | 7.0-8.5 / Anionic | Dyimol SSO-97 imparts characteristics and properties similar to natural sperm oil. When it is used in the main fatliquor it imparts softness, fullness, waxy feel and silky touch. Dyimol SSO-97 imparts brilliant sheen to suedes and nubucks. Dyimol SSO-97 imparts good grain lubrication with tight fine grain and helps to avoid grain crackness and improves tear strength. Dyimol SSO-97 can be used in the manufacturing of leather board to impart good lubrication, strength. Dyimol SSO-97 has good penetration power hence imparts excellent inner softness to softy, nappa, garment and gloving leather. Suitable for all types of leather. Dyimol SSO-97 can be used 2-11 % depending on type of leather to be produced and result desired. |

Vegetable oil based Fatliquor

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-----------------------|-------------------------------|--------------------|----------------|-------------------|--|
| Dyisoft SVO-81 | Sulphited vegetable oil blend | Clear brown liquid | 70± 2 | 8.0-9.5 / Anionic | Dyisoft SVO-81 imparts excellent softness with very good feel and roundness. Dyisoft SVO-81 imparts high luster and silky feel to suede and nubuck. Dyisoft SVO-81 forms milky white emulsion. Dyisoft SVO-81 has good stability to electrolytes and very good compatibility when mixed with other fatliquoring agents both anionic and cationic. Dyisoft SVO-81 can be applied as main fatliquor or in combination with other fatliquors as per the requirement. Dyisoft SVO-81 can be used for all types of full grain and corrected grain, chrome tanned and vegetable tanned leathers. Dyisoft SVO-81 is suitable for all types of leather, particularly uppers, gloving, lining, garment, and highly vegetable tanned leathers. Dyisoft SVO-81 can be used 2-9% depending on type of leather to be produced. |
| Dyisoft VSO-83 | Sulphited vegetable oil | Clear brown liquid | 60± 2 | 7.0-9.0 / Anionic | Dyisoft VSO-83 forms fine emulsion with hot and cold water, it penetrates well into leather, imparts good softness, fullness, and grain lubrication, very good feel and roundness. Dyisoft VSO-83 also imparts loading to chrome and vegetable tanned leathers. Dyisoft VSO-83 helps in imparting good printing effect to the leather. Dyisoft VSO-83 has good stability and very good compatibility when mixed with other fatliquoring agents both anionic and cationic. Dyisoft VSO-83 can be applied as main fatliquor or in combination with other fatliquors as per the requirement. Dyisoft VSO-83 can be used for all types of full grain and corrected grain, Chrome tanned and vegetable tanned leathers. Dyisoft VSO-83 for all types of leather, particularly uppers, gloving, lining, garment, and highly vegetable tanned leathers. Dyisoft VSO-83 can be used 2-8 % depending on type of leather to be produced. |

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| Dyisoft VSO-84 | Sulphited vegetable oil | Brown liquid | 50± 2 | 7.0-9.0 / Anionic | Dyisoft VSO-84 forms fine emulsion with hot and cold water, it penetrates well into leather, imparts good softness, fullness, and grain lubrication, very good feel and roundness. Dyisoft VSO-84 also imparts loading to chrome and vegetable tanned leathers. Dyisoft VSO-84 helps in imparting good printing effect to the leather. Dyisoft VSO-84 has good stability and very good compatibility when mixed with other fatliquoring agents both anionic and cationic. Dyisoft VSO-84 can be applied as main fatliquor or in combination with other fatliquors as per the requirement. Dyisoft VSO-84 can be used for all types of full grain and corrected grain, Chrome tanned and vegetable tanned leathers. Dyisoft VSO-84 for all types of leather, particularly uppers, gloving, lining, garment, and highly vegetable tanned leathers. Dyisoft VSO-84 can be used 2-8 % depending on type of leather to be produced. |
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Semi-Synthetic Fatliquor

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|----------------------|--------------------------------------|--------------------|----------------|--------------------|---|
| Dyipol SSF-65 | Based on Synthetic and vegetable oil | Clear brown liquid | 60± 2 | 7.0-9.0 / Nonionic | Dyipol SSF-65 forms fine emulsion with hot and cold water, it penetrates well into leather, imparts good softness, fullness, and grain lubrication, very good feel and roundness. Dyipol SSF-65 also imparts good value to chrome and vegetable tanned leathers. Dyipol SSF-65 helps in imparting good printing effect to the leather. Dyipol SSF-65 has good stability and very good compatibility when mixed with other fatliquoring agents. Dyipol SSF-65 can be applied as main fatliquor or in combination with other fatliquors as per the requirement. Dyipol SSF-65 can be used for all types of full grain and corrected grain, Chrome tanned and vegetable tanned leathers. Dyipol SSF-65 for all types of leather, particularly uppers, lining, and highly vegetable tanned leathers. Dyipol SSF-65 can be used 2-8 % depending on type of leather to be produced. |
| Dyipol SSF-63 | Based on Synthetic and vegetable oil | Brown liquid | 50± 2 | 7.0-9.0 / Nonionic | Dyipol SSF-63 forms fine emulsion with hot and cold water, it penetrates well into leather, imparts good softness, fullness, and grain lubrication, very good feel and roundness. Dyipol SSF-63 also imparts good value to chrome and vegetable tanned leathers. Dyipol SSF-63 helps in imparting good printing effect to the leather. Dyipol SSF-63 has good stability and very good compatibility when mixed with other fatliquoring agents. Dyipol SSF-63 can be applied as main fatliquor or in combination with other fatliquors as per the requirement. Dyipol SSF-63 can be used for all types of full grain and corrected grain, Chrome tanned and vegetable tanned leathers. Dyipol SSF-63 for all types of leather, particularly uppers, lining, and highly vegetable tanned leathers. Dyipol SSF-63 can be used 2-8 % depending on type of leather to be produced. |

Lecithin & Phospholipids based Fatliquor

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|----------------------|---|---------------------------|----------------|-------------------|--|
| Dyisoft BA-67 | Natural phospholipids with synthetic softner | Yellow-brown pasty liquid | 50 ± 2 | 8.0-9.0 / Anionic | Dyisoft BA-67 imparts excellent even inner softness throughout the whole substance. Dyisoft BA-67 will give lightweight, fuller leather with improved grain tightness. Dyisoft BA-67 renders warm and silky touch to the leather. It imparts both retanning and fatliquoring effect without looseness. Dyisoft BA-67 in combination with Dyipol SFE-78 produces excellent softness for nappa, garment, gloving, bag and upholstery leather. Dyisoft BA-67 can be used either alone or in combination with Dyimol LGS-68 for top fatliquoring to obtain warm waxy and buttery touch. When Dyisoft BA-67 is used for nubuck and suedes. It imparts good fullness, round body, uniform softness along with excellent buffing property with short and even nap with good writing effect. Dyisoft BA-67 is preferably pre emulsified with water at 50°C and then freely diluted. Suitable for all types of leather, It can be used 2-10 % depending on type of leather to be produced. |
| Dyisoft BA-60 | Natural phospholipids with synthetic softner | Yellow-brown pasty liquid | 40 ± 2 | 8.0-9.0 / Anionic | Dyisoft BA-60 imparts excellent even inner softness throughout the whole substance. Dyisoft BA-60 will give lightweight, fuller leather with improved grain tightness. Dyisoft BA-60 renders warm and silky touch to the leather. It imparts both retanning and fatliquoring effect without looseness. Dyisoft BA-60 in combination with Dyipol SFE-94 produces excellent softness for nappa, garment, gloving, bag and upholstery leather. Dyisoft BA-60 can be used either alone or in combination with Dyimol LGS-60 for top fatliquoring to obtain warm waxy and buttery touch. When Dyisoft BA-60 is used for nubuck and suedes. It imparts good fullness, round body, uniform softness along with excellent buffing property with short and even nap with good writing effect. Dyisoft BA-60 is preferably pre emulsified with water at 50°C and then freely diluted. Suitable for all types of leather, It can be used 2-10 % depending on type of leather to be produced. |
| Dyisoft BA-58 | Natural phospholipids with synthetic softener | Yellow-brown pasty liquid | 30 ± 2 | 8.0-9.0 / Anionic | Dyisoft BA-58 imparts excellent even softness throughout the whole substance. Dyisoft BA-58 will give lightweight, fuller leather with improved grain tightness and round body. Dyisoft BA-58 renders warm and silky touch to the leather. It imparts both retanning and fatliquoring effect without looseness. Dyisoft BA-58 in combination with Dyipol SFE-78 produces excellent softness for nappa, garment, gloving, bag and upholstery leather. Dyisoft BA-58 can be used either alone or in combination with Dyimol LGS-68 for top fatliquoring to obtain warm waxy and buttery touch. When Dyisoft BA-58 is used for nubuck and suedes. It imparts good fullness, round body, uniform softness along with excellent buffing property with short and even nap & good writing effect. Dyisoft BA-58 is preferably pre emulsified with water at 50°C and then freely diluted. Suitable for all types of leather. It can be used 2-9 % depending on type of leather to be produced and result desired. |

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|------------------------|--|-------------|--------|-------------------|---|
| Dyisoft SLE-70 | Emulsified phosphated triglyceride lecithin, with fatty alcohol ester and saturated hydrocarbons | Brown paste | 60 ± 2 | 8.0-9.0 / Anionic | Dyisoft SLE-70 imparts excellent inner softness, smooth and silky touch, improves fullness and fluffiness of the leather. Dyisoft SLE-70 produces light weight leather with improved inner softness, better body and buttery touch. When Dyisoft SLE-70 is used for nubuck and suedes, enhances dye brilliancy, it imparts velvety nap, very good writing effect and silky sheen. It is always advisable to stir well before use. Dyisoft SLE-70 in combination with Dyipol SFE-94 produces excellent softness for nappa, garment, gloving, bag and upholstery leather. Dyisoft SLE-70 is preferably pre emulsified with water at 50°C and then freely diluted. Suitable for all types of leather. It can be used 2-9 % depending on type of leather to be produced. |
| Dyisoft SLE-72 | Emulsified phosphated triglyceride lecithin, with fatty alcohol ester and saturated hydrocarbons | Brown paste | 65 ± 2 | 8.0-9.0 / Anionic | Dyisoft SLE-72 imparts excellent softness, smooth and silky touch, improves fullness and fluffiness of the leather. Dyisoft SLE-72 produces light weight leather with improved inner softness, better body and buttery touch. When Dyisoft SLE-72 is used for nubuck and suedes, enhances dye brilliancy, it imparts velvety nap , very good writing effect and silky sheen. It is always advisable to stir well before use. Dyisoft SLE-72 in combination with Dyipol SFE-78 produces excellent softness for nappa, garment, gloving, bag and upholstery leather. Dyisoft SLE-72 is preferably pre emulsified with water at 50°C and then freely diluted. Suitable for all types of leather. It can be used 2-9 % depending on type of leather to be produced. |
| Dyisoft SLE-100 | Emulsified phosphated triglyceride lecithin, with fatty alcohol ester and saturated hydrocarbons | Brown paste | 98 ± 2 | 8.0-9.0 / Anionic | Dyisoft SLE-100 imparts excellent softness, smooth and silky touch, improves fullness and fluffiness of the leather. Dyisoft SLE-100 produces light weight leather with improved inner softness, better body and buttery touch. When Dyisoft SLE-100 is used for nubuck and suedes, enhances dye brilliancy, it imparts velvety nap , very good writing effect and silky sheen. It is always advisable to stir well before use. Dyisoft SLE-100 in combination with Dyipol SFE-100 produces excellent softness for nappa, garment, gloving, bag and upholstery leather. Dyisoft SLE-100 is preferably pre emulsified with water at 50°C and then freely diluted. Suitable for all types of leather. It can be used 2-9 % depending on type of leather to be produced. |

Unique Fatliquor

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-----------------------|---|------------------------------|----------------|-------------------|---|
| Dyisoft TSM-07 | Unique combination of synthetic oil and synthetic softner | Yellowish brown pasty liquid | 50 ± 2 | 7.0-9.0 / Anionic | Dyisoft TSM-07 is specially engineered to impart very good uniform softness throughout the whole substance. Dyisoft TSM-07 imparts lightweight, fuller leather with improved grain tightness and round body. Dyisoft TSM-07 renders warm and silky touch to the leather. It imparts both retanning and fatliquoring effect without looseness. Dyisoft TSM-07 is unique and ideal product for nappa, upper, bag, industrial and milled leather. Dyisoft TSM-07 can be used for top fatliquoring to obtain warm waxy and buttery touch. When Dyisoft TSM-07 is used for nubuck and suedes, it imparts good fullness, round body, uniform softness along |

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| | | | | | with excellent buffing property with short and even nap with good writing effect. Dyisoft TSM-07 can be used for all types of full grain and corrected grain, chrome tanned and vegetable tanned leathers. Suitable for all types of leather, It can be used 2-15 % depending on type of leather to be produced and result desired. |
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Synthetic Fatliquor

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|----------------------|--|----------------------|----------------|--------------------|--|
| Dyipol SP-82 | Sulphited synthetic ester | Brownish liquid | 60± 2 | 7.0-8.0 / Anionic | Dyipol SP-82 imparts properties similar to sperm oil fatliquors, it imparts good softness, light weight, waxy feel coupled with fullness without making the leather loose. Dyipol SP-82 has good penetration power hence imparts excellent uniform inner softness to softy, nappa, garment, upper & gloving leather. Dyipol SP-82 is lightfast and is suitable for producing pastel shades and has no tendency to discolor the leather. Suitable for all types of leather, It can be used 2-8 % depending on type of leather to be produced. |
| Dyipol GLS-64 | Reaction of partially hydrocarbons with special softner and additive | Light brown liquid | 50± 2 | 7.0-8.5 / Nonionic | Dyipol GLS-64 ensures well balanced fatliquoring effect throughout the cross section of leather and imparts excellent softness, lightfastness, dispersion and lightweight. Dyipol GLS-64 is electrolyte stable product imparts dry feel to the surface with better buffing properties with short and even nap, which makes it most suitable for nubuck, suede and corrected grain leathers. Suitable for all types of chrome and vegetable tanned leathers. Dyipol GLS-64 can be used for dispersion of tanning, retanning, syntans and fatliquors, It can be used in pickle, chrome and retanning bath for better penetration and uptake. It can be used 2 - 7 % depending on type of leather to be produced and result desired. |
| Dyipol SFE-78 | Synthetic fatty ester and hydrocarbon | Reddish brown liquid | 60± 2 | 7.0-8.5 / Anionic | Dyipol SFE-78 is synthetic; lightfast fatliquor produces micro emulsion as a result of which uniform penetration can be achieved. It imparts balanced fatliquoring effect with excellent softness and fullness. Leather treated with Dyipol SFE-78 is light weight, lightfast and has nourished feel. Suitable for fatliquoring chrome tanned and vegetable tanned leathers. Dyipol SFE-78 is suitable for all types of leather, It can be used 3-15 % depending on type of leather to be produced and result desired. |
| Dyipol ESF-86 | Sulfonated synthetic ester oil | Reddish brown liquid | 60± 2 | 7.5-8.5 / Anionic | Dyipol ESF-86 is fully synthetic lightweight, lightfast highly penetrative fatliquoring agent imparts excellent softness, good fullness and slightly waxy surface feel. It is electrolyte stable and can disperse untreated oils, syntans and dyes. Dyipol ESF-86 penetrates very well into the leather, even without the additional use of other oils, a well balanced fatliquoring effect throughout the cross section of leather is obtained. Suitable for all types of soft leather, It can be used 3-15 % |

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| Dyipol ESF-94 | Synthetic ester oil | Reddish brown liquid | 70± 2 | 7.5-8.5 / Anionic | Dyipol ESF-94 is lightweight; lightfast highly penetrative fatliquoring agent imparts excellent inner softness, good fullness and slightly waxy surface feel. It is electrolyte stable and can disperse untreated oils, syntans and dyes. Dyipol ESF-94 penetrates very well into the leather, even without the additional use of other oils, a well balanced fatliquoring effect throughout the cross section of leather is obtained. Suitable for all types of soft leather, It can be used 3-15 % |
| Dyipol GLH-62 | Combination of synthetic oils with surface active agents | Light brown liquid | 50± 2 | 7.0-8.5 / Nonionic | Dyipol GLH-62 is electrolyte and acid stable product imparts good softening and lubricating effect and lightweight. Dyipol GLH-62 is lightfastness imparts dispersion dry feel to the surface with better buffing properties with short and even nap, which makes it most suitable for nubuck, suede and corrected grain leathers. Suitable for all types of chrome and vegetable tanned leathers. Dyipol GLH-62 is only partially extractable. In the drum the tendency is less for tangling and rubbing resulting into flat wet blue. When Dyipol GLH-62 is used in tanning and rechroming it reduces wrinkles and growth marks, thereby flat wet blue is obtained, when the same wet blue is sammed, splitted, shaved and wet backed it results into uniform wetback effect due to which trimming is less resulting into ultimate gain in the area of finished leather. During manual operation and storage of wet blue there is tendency of drying of edges particularly in belly, flanks and shank areas, after shaving and wetback operation these areas does not wetback properly due to over dry edges, due to which most of the time these areas are trimmed off, resulting into area loss, when the Dyipol GLH-62 treated wet blue is passed through the same operation it wets back easily thereby avoid trimming and hence result into better area yield. When used in pickling and tanning operation it fastens the process, helps in natural fat dispersion and improves the tensile strength. The mechanical working is also improved, for example buffing and samming. Dyipol GLH-62 can be used for dispersion of tanning, retanning, syntans and fatliquors and leveling of dyes, It can be used in pickle chrome and rechrome bath for better penetration and uptake. It can be used 1- 7 % depending on type of leather. |
| Dyipol LWS-85 | Aliphatic hydrocarbons and alcohols sulfonated by special method | Reddish brown liquid | 60± 2 | 7.5-8.5 / Anionic | Dyipol LWS-85 is lightweight; lightfast highly penetrative fatliquoring agent imparts excellent softness, elastic grain good fullness, and good fluffiness, round feel, good mellowness and nice surface touch. It is electrolyte stable and can disperse untreated oils, syntans and dyes. Dyipol LWS-85 yields very soft and fuller leather with excellent lightfastness, which can be finished without any difficulties, they are fast to washing and dry cleaning. Dyipol LWS-85 penetrates very well into the leather, even without the additional use of other oils; a well balanced fatliquoring effect throughout the cross section of leather is obtained. Suitable for all types of soft leather, It can be used 3-15 % depending on type of leather to be produced. |

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| Dyipol AXN-87 | Synthetic lubricant and aliphatic hydrocarbons | Medium brown liquid | 70± 2 | 7.5-8.5 / Anionic | Dyipol AXN-87 is capable to impart good grain lubrication with grain tightness; uniform deep penetration. It imparts lightfastness, excellent softness, with waxy touch and full handle without making the leather loose. Dyipol AXN-87 penetrates very well into the leather; even without the additional use of other oils a well balanced fatliquoring effect throughout the cross section of leather is obtained. Dyipol AXN-87 is versatile fatliquor suitable for all types of leather such as upper, softy, nappa, garment, suede, nubuck and industrial leathers. Dyipol AXN-87 is very good fatliquoring agent for chrome tanned and vegetable tanned leathers. It can be used either alone or in combination with other fatliquors to get desired softness, fullness, and other properties. Suitable for all types of soft leather. It can be used 3-10 % depending on type of leather to be produced. |
| Dyipol XAF-88 | Synthetic product with special emulsifier and wax | Brownish paste | 75± 2 | 7.0-8.0 / Nonionic | Dyipol XAF-88 is capable of good grain lubrication with grain tightness; uniform deep penetration hence imparts lightfastness, very good softness, with waxy touch and full handle without making the leather loose. Dyipol XAF-88 can be diluted with warm water, penetrates very well into the leather, even without the additional use of other oils, a well balanced fatliquoring effect throughout the cross section of leather is obtained. Dyipol XAF-88 is versatile fatliquor suitable for all types of leather such as upper, softy, nappa, garment, suede, nubuck and industrial leather. Dyipol XAF-88 is very good fatliquoring agent for chrome tanned and vegetable tanned leathers. It can be used either alone or in combination with other fatliquors to get desired softness, fullness, and other properties. Suitable for all types of soft leather, It can be used 3-10 % depending on type of leather to be produced and result desired. |
| Dyipol PXL-84 | Synthetic fatliquor based on aliphatic hydrocarbon | Medium brown liquid | 70± 2 | 6.5-8.5 / Anionic | Dyipol PXL-84 is versatile synthetic fatliquor suitable for all types of leather such as upper, softy, nappa, garment, suede, nubuck and industrial leather. Dyipol PXL-84 is capable of uniform deep penetration hence imparts good softness, waxy touch good body and mellow handle without making the leather loose. Dyipol PXL-84 penetrates very well into the leather. Even without the additional use of other oils, a well balanced fatliquoring effect throughout the cross section of leather is obtained. Dyipol PXL-84 renders leather with excellent nourishment, produces leather with tight grain and free of rancidity, avoids spue formation on leather. Dyipol PXL-84 is very good fatliquoring agent for chrome tanned and vegetable tanned leathers. Suitable for all types of soft leather. It can be used 3-10 %. |
| Dyipol ESO-71 | Sulphited long chain compound and synthetic ester | Yellowish brown liquid | 60± 2 | 7.0-8.0 / Anionic | Dyipol ESO-71 forms fine emulsion, highly penetrative fatliquor imparts excellent softness, round feel and pleasant touch. The leathers which are treated with Dyipol ESO-71 are light weight and can be finished without any problem. Dyipol ESO-71 is very good fatliquoring agent for chrome tanned and vegetable tanned leathers. Suitable for all types of soft leather, It can be used 3-10 %. |

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| Dyipol LGS-95 | Combination of sulpho-chlorinated paraffin and high molecular weight hydrocarbon | Brownish liquid | 60± 2 | 7.0-8.0 / Anionic | Dyipol LGS-95 is a versatile fatliquor which produces leather of extreme softness and tight fine grain with good lightfastness. It imparts sound body, round feel and smooth touch to the leather. Dyipol LGS-95 is multipurpose fatliquor ideal for grain lubrication, it gives softness to the leather without any looseness, hence suitable for upper, softy, nappa, garment, gloving and suede. It can be used 2-7 % depending on type of leather to be produced. |
| Dyipol PXI-92 | Sulpho-chlorinated long chain high molecular hydrocarbons and synthetic emulsifier | Light brown liquid | 70± 2 | 7.0-8.0 / Anionic | Dyipol PXI-92 is high performing synthetic fatliquor imparts rich softness, with waxy handle. Leathers treated with Dyipol PXI-92 have excellent fiber lubrication, good grain tightness; uniform deep penetration, good softness, with waxy touch and full handle without making the leather loose. It penetrates very well into the leather; even without the additional use of other oils a well balanced fatliquoring effect throughout the cross section of leather is obtained. Dyipol PXI-92 is suitable for all types of leather such as gloving, upper, softy, nappa, garment, suede, nubuck and industrial leather. It is very good fatliquoring agent for chrome tanned and vegetable tanned leathers. It can be used either alone or in combination with other fatliquors to get desired softness, fullness, and other properties. Suitable for all types of soft leather. It can be used 3-10 %. |
| Dyipol GLO-74 | Synthetic and ester oil | Brownish liquid | 60± 2 | 7.0-8.0 / Anionic | Dyipol GLO-74 has good penetration properties, enhances softness, fullness, uniform grain, supple feel and gives the leather a smooth pleasing handle especially when used in the main fatliquoring combination. Dyipol GLO-74 penetrates very well into the leather, even without the additional use of other oils; a well balanced fatliquoring effect throughout the cross section of leather is obtained with very good inner softness. Dyipol GLO-74 is versatile fatliquor suitable for all types of leather such as gloving, upper, softy, nappa, garment, suede, nubuck and industrial leather. It can be used 3-12 % depending on type of leather to be produced. |
| Dyipol GOL-75 | Synthetic and ester oil | Brownish liquid | 50± 2 | 7.0-8.0 / Anionic | Dyipol GOL-75 has good penetration properties, enhances softness, fullness, uniform grain, supple feel and gives the leather a smooth pleasing handle especially when used in the main fatliquoring combination. Dyipol GOL-75 penetrates very well into the leather, even without the additional use of other oils; Dyipol GOL-75 imparts a well balanced fatliquoring effect throughout the cross section of leather. Leather produced with Dyipol GOL-75 has very good inner softness. Dyipol GOL-75 is versatile fatliquoring agent suitable for all types of leather such as gloving, upper, softy, nappa, garment, suede, nubuck and industrial leather. Dyipol GOL-75 is also suitable for vegetable tanned leathers. It can be used 3-18 % depending on type of leather to be produced and result desired. |
| Dyipol ESP-60 | Sulfonated synthetic ester oil | Reddish brown liquid | 40± 2 | 7.5-8.5 / Anionic | Dyipol ESP-60 is lightweight, lightfast highly penetrative fatliquoring agent imparts excellent softness, good fullness and slightly waxy surface feel. It is electrolyte stable and can disperse untreated oils, syntans and dyes. Dyipol ESP-60 penetrates very well into the leather, even without the additional use of other oils, a well balanced fatliquoring effect throughout the cross section of leather is obtained. |

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| | | | | | Suitable for all types of soft leather, It can be used 3-10 % |
| Dyipol GLL-70 | Synthetic and ester oil | Thick liquid | 40± 2 | 7.0-8.0 / Anionic | Dyipol GOL-70 has good penetration properties, enhances softness, fullness, uniform grain, supple feel and gives the leather a smooth pleasing handle especially when used in the main fatliquoring combination. Dyipol GLL-70 penetrates very well into the leather, even without the additional use of other oils; Dyipol GLL-70 imparts a well balanced fatliquoring effect throughout the cross section of leather. Leather produced with Dyipol GLL-70 has very good inner softness. Dyipol GLL-70 is versatile fatliquoring agent suitable for all types of leather such as gloving, upper, softy, nappa, garment, suede, nubuck and industrial leather. Dyipol GLL-70 is also suitable for vegetable tanned leathers. It can be used 3-10 % depending on type of leather to be produced and result desired. |

Free Oil

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|-----------------------|-------------------------------|--------------------------|----------------|--------------------|---|
| Dyipol LCS-99 | Emulsified liquid hydrocarbon | Pale yellow clear liquid | 98± 2 | 7.0-8.0 / Nonionic | Dyipol LCS-99 is self emulsifiable, synthetic free oil with very good lightfastness. When it is used in the main fatliquor for softer leather it imparts waxy touch and silky feel. Dyipol LCS-99 imparts brilliant sheen to suedes and nubucks and good burnishing effect when used for burnish leather. Dyipol LCS-99 imparts good grain lubrication and helps to avoid grain crackness. When used for vegetable tanned leathers it helps to avoid oxidation and spue formation. Dyipol LCS-99 can be used in the manufacturing of leather board to impart good lubrication, strength, and helps to avoid crackness as it retains moisture. Suitable for all types of leather, It can be used 1-4 % depending on type of leather to be produced and result desired. |
| Dyipol BSK-100 | Synthetic Raw Neets foot oil | Pale yellow clear liquid | 98± 2 | 7.0-8.0 / Anionic | Lighfast synthetic oil, substitute of raw neetsfoot oil. Dyipol BSK-100 is insoluble in water, imparts properties close to natural neetsfoot oil with regard to cold crack resistance and better affinity to the leather. Dyipol BSK-100 can be used in leather board manufacturing for improving the tensile strength. It imparts good lubrication to the fiber and also helps in providing moisture to the fiber. Dyipol BSK-100 imparts good grain lubrication, nourished feel and roundness and improved setting property and gives good body to the leather. Dyipol BSK-100 helps in reducing the chances of grain crackness. Dyipol BSK-100 can be mixed with water-soluble fatliquors in required proportion first and then stirred well prior to dilution with hot water(approx. 60°C) it can be used in combination with other anionic fatliquors as per desired effect, it helps to reduce the water absorption of leather. Suitable for all types of chrome and vegetable tanned leathers. It can be used 1-3 % depending on type of leather to be produced and result desired. |

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| Dyipol SSO-110 | Synthetic sperm oil | Yellow brown clear liquid | 98± 2 | 7.0-8.0 / Anionic | Dyipol SSO-110 is synthetic oil, substitute of natural sperm oil. Dyipol SSO-110 is insoluble in water, imparts properties close to natural sperm oil with regard to cold crack resistance and better affinity to the leather. It imparts good lubrication to the fiber and also helps in providing moisture to the fiber. Dyipol SSO-110 imparts good grain lubrication, mellow handle, nourished feel, roundness, improved setting property and good body to the leather. Dyipol SSO-110 helps in reducing the chances of grain crackness. Dyipol SSO-110 can be mixed with water-soluble fatliquors in required proportion first and then stirred well prior to dilution with hot water(approx. 60°C) it can be used in combination with other anionic fatliquors as per desired effect Suitable for all types of chrome and vegetable tanned leathers. It can be used 1-2 % depending on type of leather to be produced and result desired. |
| Dyipol SNO-120 | Emulsified synthetic neetsfoot oil | Pale yellow clear liquid | 98± 2 | 5.5-7.5 / Nonionic | Dyipol SNO-120 is self emulsifiable, synthetic neetsfoot oil with very good lightfastness. When it is used in the main fatliqor for softer leather it imparts waxy touch and silky feel. Dyipol SNO-120 imparts brilliant sheen to suedes and nubucks and good burnishing effect when used for burnish leather. Dyipol SNO-120 imparts good grain lubrication and helps to avoid grain crackness. When used for vegetable tanned leathers it helps to avoid oxidation and spue formation. Dyipol SNO-120 can be used in the manufacturing of leather board to impart good lubrication, strength, and helps to avoid crackness as it retains moisture. Suitable for all types of leather. It can be used 1-3 % depending on type of leather to be produced and result desired. |

Cationic Fatliqor & Dispersing Agent

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|------------------|---------------------------------|--------------------------|----------------|--------------------|--|
| Dyilix CF | Fatty acid condensation product | Off white to cream paste | 20 ± 2 | 3.5-5.0 / Cationic | Dyilix CF helps to achieve a more uniform and rapid chrome tanning with mild lubrication to the fibers. It imparts brilliant and touchy nap to the suedes and nubuck. As a top fatliqor for grain lubrication it reduces risk grain of crackness. Dyilix CF enhances both softness and fullness with smoothness and pleasant handle. Because of its high electrolyte stability and mild lubrication Dyilix CF promotes even distribution of chrome in chrome tanning and rechroming thus imparts fullness and softness to the fibers. As a top fatliqor it gives pleasant handle and avoids grain crackness. Suitable for multi-charge fatliquoring system. Suitable for all types of leather. It can be used 0.5-2 % depending on type of leather to be produced and result desired. |

Auxiliary Products

| Product | Base | Appearance | Total Solids % | pH / Charge | Uses / Benefits |
|----------------------|------------------------------|------------------------------|----------------|-------------------|--|
| Dyauxl MR-407 | Selected polyols and glycols | Colorless transparent liquid | 98 ± 2 | 6.0-7.5 / Anionic | Dyauxl MR-407 hygroscopic product takes in moisture from atmosphere more slowly and also gives out moisture more slowly than glycerin. It has capacity to retain desired level of moisture in leather more uniformly than glycerin and hence feel of leather is balanced and maintained. Dyauxl MR-407 allows leather to balance moisture especially in extremely hot and dry climates, imparts mild softness, maintains feel and thereby reduces risk of grain crackness. When Dyauxl MR-407 is used in leather produced for cold countries, it helps in maintaining the feel of leather. Dyauxl MR-407 can be used in manufacturing of chrome tanned leather, vegetable tanned leather and leather board. The hygrosopicity of Dyauxl MR-407 is 60 as compared to 100 of glycerin. It can be used 0.5 to 1% with fatliquor or 0.5 to 2% in separate bath after fatliquoring to impart softer crust with better staking and buffing. Use of Dyauxl MR-407 2 to 5 gms per liter in protein finish imparts mellow feel and better gloss to the leather after glazing and polishing. Dyauxl MR-407 is suitable for all types of leather. It can be used 0.5-2 % depending on type of leather to be produced and result desired. |

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