



## **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 dyeing, 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.

## New Products at a Glance

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

<b>Product</b>	<b>Base</b>	<b>Appearance</b>	<b>Total Solids %</b>	<b>pH / Charge</b>	<b>Uses / Benefits</b>
<b>Dytan AS-96FF</b>	Aluminium and aromatic sulphonic acid complex	Creamish white powder	95 ± 2	3.0-4.0 / Anionic	<b>Dytan AS-96FF</b> is free of free formaldehyde product imparts pronounced handle and very good grain tightening effect. <b>Dytan AS-96FF</b> is used in retanning of chrome leathers to achieve good depth of shade and levelness besides softness and fine grain. <b>Dytan AS-96FF</b> is a good product for production of nubuck and suede leathers. <b>Dytan AS-96FF</b> 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 <b>Dytan AS-96FF</b> 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.

### **Pretanning and Tanning Syntan – Vegetable & Polymer based**

<b>Product</b>	<b>Base</b>	<b>Appearance</b>	<b>Total Solids %</b>	<b>pH / Charge</b>	<b>Uses / Benefits</b>
<b>Dytan TRA</b>	Tailor made vegetable tanning agent replacement to Tara Powder	Light Brown powder	93 ± 2	4.5-6.5 / Anionic	<b>Dytan TRA</b> 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. <b>Dytan TRA</b> has higher lightfastness compared to other extracts. <b>Dytan TRA</b> 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. <b>Dytan TRA</b> 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.
<b>Dytan VTW</b>	Tailor made vegetable & Polymeric tanning syntan for all types of leather	Light Yellow Powder	95 ± 2	5.5-7.5 / Anionic	<b>Dytan VTW</b> 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. <b>Dytan VTW</b> 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

					<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. <b>Dytan VTW</b> 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. <b>Dytan VTW</b> 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. <b>Dytan VTW</b> promotes good buffing. It can be used 2 to 7% depending on type of leather to be produced.</p>
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### Retanning Syntan- Chrome complex

Product	Base	Appearance	Total Solids %	pH / Charge	Uses / Benefits
<b>Dycotan CNFF</b>	Chrome complexed with aromatic sulphonic acid condensate	Greenish powder	95 ± 2	3.5-5.0 / Anionic	<b>Dycotan CNFF</b> is free of free formaldehyde product imparts good fullness, grain tightness, softness, leveling with round handle and buffing property. When <b>Dycotan CNFF</b> 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. <b>Dycotan CNFF</b> is usually applied as versatile combination tanning agent for rechroming chrome tanned and semichroming EI-tanned leathers. <b>Dycotan CNFF</b> penetrates rapidly through the pelt producing leather with even distribution throughout the cross section of leather raising shrinkage temperature. <b>Dycotan CNFF</b> can be used 4 to 6 % depending on type of leather to be produced and result desired. Suitable for all types of leather.
<b>Dycotan CNE</b>	Combination of chrome with aromatic sulphonic acid condensate	Greenish powder	95 ± 2	3.5-5.0 / Anionic	<b>Dycotan CNE</b> imparts good fullness, grain tightness, softness, leveling with round handle and buffing property. When <b>Dycotan CNE</b> 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. <b>Dycotan CNE</b> is usually applied as versatile combination tanning agent for rechroming chrome tanned and semichroming EI-tanned leathers. <b>Dycotan CNE</b> penetrates rapidly through the pelt producing leather with even distribution throughout the cross section of leather raising shrinkage temperature. <b>Dycotan CNE</b> can be used 4 to 6 % depending on type of leather to be produced and result desired. Suitable for all types of leather.
<b>Dycotan CV</b>	Vegetable and chrome complex syntan	Greenish powder	96 ± 2	3.0-5.0 / Anionic	<b>Dycotan CV</b> 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 <b>Dycotan CV</b> imparts plumpness, firmness, grain tightness and excellent filling in loose areas and thereby better cutting yield. <b>Dycotan CV</b> is recommended

					for rechroming of chrome tanned leather and semi chroming of vegetable tanned leather and imparts improved softness, fullness, tightness, grain smoothness with mellow handle. <b>Dycotan CV</b> 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. <b>Dycotan CV</b> can be used 4 to 6 % depending on type of leather to be produced and result desired. Suitable for all types of leather. <b>Dycotan CV</b> is an excellent product for milled leathers, leather rechromed with <b>Dycotan CV</b> has good filling and uniform milling pattern.
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### Dye leveling, dispersing and Neutralizing Syntan

Product	Base	Appearance	Total Solids %	pH / Charge	Uses / Benefits
<b>Dycotan DL</b>	Aromatic sulphonic acid condensate	Beige colored powder	96 ± 2	7.0-9.0 / Anionic	<b>Dycotan DL</b> 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. <b>Dycotan DL</b> 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. <b>Dycotan DL</b> maintains better ph and uniform charge throughout the surface of leather which causes uniform dyeing, retanning and fatliquoring. <b>Dycotan DL</b> 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
<b>Dycryltan DRE-40</b>	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 <b>Dycryltan DRE-40</b> 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. <b>Dycryltan DRE-40</b> 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 <b>Dycryltan DRE-40</b> 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. <b>Dycryltan DRE-40</b> can be used between 2 to 8 % depending on type of leather to be produced and result desired.
<b>Dycryltan CRE-60</b>	Very soft acrylic polymer	Light yellow liquid	40 ± 2	6.0-8.5 / Anionic	<b>Dycryltan CRE-60</b> imparts excellent filling, very good uniform softness and grain tightness with improved break, good fullness and fluffy handle. <b>Dycryltan CRE-60</b> 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. <b>Dycryltan CRE-60</b> can be used 2 to 11 % for all types of leathers depending on type of leather to be produced and result desired.

### Replacement Syntan

Product	Base	Appearance	Total Solids %	pH / Charge	Uses / Benefits
<b>Dysyntan PLE</b>	Polymer condensation product	Pale colored powder	96 ± 2	5.0-7.5 / Anionic	<b>Dysyntan PLE</b> 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. <b>Dysyntan PLE</b> imparts good body, compact grain and very good fullness. <b>Dysyntan PLE</b> is designed to give mild filling and ensures smoothness and tightness of grain. <b>Dysyntan PLE</b> prevents sludge formation in vegetable tan liquor and makes color of the leather much lighter and cleaner. <b>Dysyntan PLE</b> is suitable for all types of full grain and corrected grain chrome tanned and vegetable tanned leathers. <b>Dysyntan PLE</b> can be used 2-8% depending on type of leather to be produced and result desired.

### Resin and Filling Syntan

Product	Base	Appearance	Total Solids %	pH / Charge	Uses / Benefits
<b>Dysyntan RS-77W</b>	Condensation product based on Polymer like dicyanadi-amide	Pale Yellow powder	96 ± 2	8.0-10 / Anionic	<b>Dysyntan RS-77W</b> 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 <b>Dysyntan RS-77W</b> have good leveled dyeing, better buffing and finishing. <b>Dysyntan RS-77W</b> produces well filled leather especially in looser areas of the skin i.e. belly and flanks. <b>Dysyntan RS-77W</b> 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. <b>Dysyntan RS-77W</b> can be used 2 to 8 % depending on type of leather produced and result desired.
<b>Dysyntan DFS-35</b>	Condensation product based on	Pale brown powder	96 ± 2	8.0-10 / Anionic	<b>Dysyntan DFS-35</b> 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

	resin like dicyanadi-amide				leathers. Leathers treated with <b>Dysyntan DFS-35</b> have good leveled dyeing, better buffing and finishing. <b>Dysyntan DFS-35</b> produces well filled leather especially in looser areas of the skin i.e. belly and flanks. <b>Dysyntan DFS-35</b> 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. <b>Dysyntan DFS-35</b> can be used 2 to 6 % depending on type of leather produced and result desired.
<b>Dysyntan NS-85</b>	Based on nitrogen containing resin filling product	Pale brown powder	95 ± 2	5.0-7.0 / Anionic	<b>Dysyntan NS-85</b> 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. <b>Dysyntan NS-85</b> 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. <b>Dysyntan NS-85</b> 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%.
<b>Dysyntan RS-12</b>	Condensation product based on Resins & Polymers	Pale Yellow powder	96 ± 2	7.0-9.0 / Anionic	<b>Dysyntan RS-12</b> 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 <b>Dysyntan RS-12</b> have good leveled dyeing, better buffing and finishing. <b>Dysyntan RS-12</b> produces well filled leather especially in looser areas of the skin i.e. belly and flanks. <b>Dysyntan RS-12</b> 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. <b>Dysyntan RS-12</b> can be used 2 to 6 % depending on type of leather produced and result desired.

### Drum Protein Filler

Product	Base	Appearance	Total Solids %	pH / Charge	Uses / Benefits
<b>Dyfill LFS</b>	Protein based filler	Pale brown powder	95 ± 2	5.5-7.5 / Anionic	<b>Dyfill LFS</b> 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. <b>Dyfill LFS</b> can be used for almost all type of leather, chrome tanned, vegetable tanned and combination tanned, either full grain of corrected grain leathers. <b>Dyfill LFS</b> 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 <b>Dyfill LFS</b> 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. <b>Dyfill LFS</b> 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.
<b>Dyfill LFC</b>	Protein based filler	Pale brown powder	95 ± 2	5.5-7.5 / Anionic	<b>Dyfill LFC</b> 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. <b>Dyfill LFC</b> can be used for almost all type of leather, chrome tanned, vegetable tanned and combination tanned, either full grain of corrected grain leathers. <b>Dyfill LFC</b> 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 <b>Dyfill LFC</b> 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. <b>Dyfill LFC</b> 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
<b>Dysyтан CS-FU</b>	Synthetic and Polymer Base	Pale Brown powder	95 ± 2	5.5-7.5 / Anionic	<b>Dysyтан CS-FU</b> 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. <b>Dysyтан CS-FU</b> is fixed under acid condition and has selected filling action, which improves the more open structured areas of leather. <b>Dysyтан CS-FU</b> helps in producing leather with superior embossing, print retention and milling properties, The leather retanned with <b>Dysyтан CS-FU</b> 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. <b>Dysyтан CS-FU</b> 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. <b>Dysyтан CS-FU</b> promotes level dyeing and good buffing. It can be used 5 to 10% depending on type of leather to be produced.

### Wool Grease Based Fatliquor

Product	Base	Appearance	Total Solids %	pH / Charge	Uses / Benefits
<b>Dyimol WGS-61</b>	Specially treated wool grease with synthetic	Dark brown viscous liquid	50 ± 2	8.0-9.0 / Anionic	<b>Dyimol WGS-61</b> 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

	oil				absorption in leather. Leather fatliquored with <b>Dyimol WGS-61</b> has good burnishing effect. It imparts round body with mellow handle and supple feel. <b>Dyimol WGS-61</b> has good compatibility with other synthetic tanning agents, it is not recommended with chrome salts. <b>Dyimol WGS-61</b> 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 <b>Dyimol WGS-61</b> . 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.
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### Vegetable oil based Fatliquor

Product	Base	Appearance	Total Solids %	pH / Charge	Uses / Benefits
<b>Dyisoft VSO-84</b>	Sulphited vegetable oil	Brown liquid	50± 2	7.0-9.0 / Anionic	<b>Dyisoft VSO-84</b> 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. <b>Dyisoft VSO-84</b> also imparts loading to chrome and vegetable tanned leathers. <b>Dyisoft VSO-84</b> helps in imparting good printing effect to the leather. <b>Dyisoft VSO-84</b> has good stability and very good compatibility when mixed with other fatliquoring agents both anionic and cationic. <b>Dyisoft VSO-84</b> can be applied as main fatliquor or in combination with other fatliquors as per the requirement. <b>Dyisoft VSO-84</b> can be used for all types of full grain and corrected grain, Chrome tanned and vegetable tanned leathers. <b>Dyisoft VSO-84</b> for all types of leather, particularly uppers, gloving, lining, garment, and highly vegetable tanned leathers. <b>Dyisoft VSO-84</b> can be used 2-8 % depending on type of leather to be produced.

### Semi-Synthetic Fatliquor

Product	Base	Appearance	Total Solids %	pH / Charge	Uses / Benefits
<b>Dyipol SSF-65</b>	Based on Synthetic and vegetable oil	Clear brown liquid	60± 2	7.0-9.0 / Nonionic	<b>Dyipol SSF-65</b> 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. <b>Dyipol SSF-65</b> also imparts good value to chrome and vegetable tanned leathers. <b>Dyipol SSF-65</b> helps in imparting good printing effect to the leather. <b>Dyipol SSF-65</b> has good stability and very good compatibility when mixed with other fatliquoring agents. <b>Dyipol SSF-65</b> can be applied as main fatliquor or in combination with other fatliquors as per the requirement. <b>Dyipol SSF-65</b> can be used for all types of full grain and corrected grain, Chrome tanned and vegetable tanned leathers. <b>Dyipol SSF-65</b> for all types of leather, particularly uppers, lining, and highly vegetable tanned leathers. <b>Dyipol SSF-65</b> can be used 2-8 % depending on

					type of leather to be produced.
<b>Dyipol SSF-63</b>	Based on Synthetic and vegetable oil	Brown liquid	50± 2	7.0-9.0 / Nonionic	<b>Dyipol SSF-63</b> 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. <b>Dyipol SSF-63</b> also imparts good value to chrome and vegetable tanned leathers. <b>Dyipol SSF-63</b> helps in imparting good printing effect to the leather. <b>Dyipol SSF-63</b> has good stability and very good compatibility when mixed with other fatliquoring agents. <b>Dyipol SSF-63</b> can be applied as main fatliquor or in combination with other fatliquors as per the requirement. <b>Dyipol SSF-63</b> can be used for all types of full grain and corrected grain, Chrome tanned and vegetable tanned leathers. <b>Dyipol SSF-63</b> for all types of leather, particularly uppers, lining, and highly vegetable tanned leathers. <b>Dyipol SSF-63</b> 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
<b>Dyisoft BA-60</b>	Natural phospholipids with synthetic softner	Yellow-brown pasty liquid	40 ± 2	8.0-9.0 / Anionic	<b>Dyisoft BA-60</b> imparts excellent even inner softness throughout the whole substance. <b>Dyisoft BA-60</b> will give lightweight, fuller leather with improved grain tightness. <b>Dyisoft BA-60</b> renders warm and silky touch to the leather. It imparts both retanning and fatliquoring effect without looseness. <b>Dyisoft BA-60</b> in combination with <b>Dyipol SFE-94</b> produces excellent softness for nappa, garment, gloving, bag and upholstery leather. <b>Dyisoft BA-60</b> can be used either alone or in combination with <b>Dyimol LGS-60</b> for top fatliquoring to obtain warm waxy and buttery touch. When <b>Dyisoft BA-60</b> 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. <b>Dyisoft BA-60</b> 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.
<b>Dyisoft SLE-70</b>	Emulsified phosphated triglyceride lecithin, with fatty alcohol ester and saturated hydrocarbons	Brown paste	60 ± 2	8.0-9.0 / Anionic	<b>Dyisoft SLE-70</b> imparts excellent inner softness, smooth and silky touch, improves fullness and fluffiness of the leather. <b>Dyisoft SLE-70</b> produces light weight leather with improved inner softness, better body and buttery touch. When <b>Dyisoft SLE-70</b> 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. <b>Dyisoft SLE-70</b> in combination with <b>Dyipol SFE-94</b> produces excellent softness for nappa, garment, gloving, bag and upholstery leather. <b>Dyisoft SLE-70</b> 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.
<b>Dyisoft SLE-100</b>	Emulsified phosphated triglyceride	Brown paste	98 ± 2	8.0-9.0 / Anionic	<b>Dyisoft SLE-100</b> imparts excellent softness, smooth and silky touch, improves fullness and fluffiness of the leather. <b>Dyisoft SLE-100</b> produces light weight leather with

	lecithin, with fatty alcohol ester and saturated hydrocarbons				improved inner softness, better body and buttery touch. When <b>Dyisoft SLE-100</b> 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. <b>Dyisoft SLE-100</b> in combination with <b>Dyipol SFE-100</b> produces excellent softness for nappa, garment, gloving, bag and upholstery leather. <b>Dyisoft SLE-100</b> 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.
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## Synthetic Fatliquor

Product	Base	Appearance	Total Solids %	pH / Charge	Uses / Benefits
<b>Dyipol ESF-94</b>	Synthetic ester oil	Reddish brown liquid	70± 2	7.5-8.5 / Anionic	<b>Dyipol ESF-94</b> 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. <b>Dyipol ESF-94</b> 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 %
<b>Dyipol PXL-84</b>	Synthetic fatliquor based on aliphatic hydrocarbon	Medium brown liquid	70± 2	6.5-8.5 / Anionic	<b>Dyipol PXL-84</b> is versatile synthetic fatliquor suitable for all types of leather such as upper, softy, nappa, garment, suede, nubuck and industrial leather. <b>Dyipol PXL-84</b> is capable of uniform deep penetration hence imparts good softness, waxy touch good body and mellow handle without making the leather loose. <b>Dyipol PXL-84</b> 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. <b>Dyipol PXL-84</b> renders leather with excellent nourishment, produces leather with tight grain and free of rancidity, avoids spue formation on leather. <b>Dyipol PXL-84</b> 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 %.
<b>Dyipol PXI-92</b>	Sulpho-chlorinated long chain high molecular hydrocarbons and synthetic emulsifier	Light brown liquid	70± 2	7.0-8.0 / Anionic	<b>Dyipol PXI-92</b> is high performing synthetic fatliquor imparts rich softness, with waxy handle. Leathers treated with <b>Dyipol PXI-92</b> 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. <b>Dyipol PXI-92</b> 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 %.
<b>Dyipol</b>	Synthetic and	Brownish liquid	60± 2	7.0-8.0 / Anionic	<b>Dyipol GLO-74</b> has good penetration properties, enhances softness, fullness, uniform grain, supple feel and gives the

<b>GLO-74</b>	ester oil				leather a smooth pleasing handle especially when used in the main fatliquoring combination. <b>Dyipol GLO-74</b> 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. <b>Dyipol GLO-74</b> is versatile fatliqor 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.
<b>Dyipol ESP-60</b>	Sulfonated synthetic ester oil	Reddish brown liquid	40± 2	7.5-8.5 / Anionic	<b>Dyipol ESP-60</b> 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. <b>Dyipol ESP-60</b> 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 3-10 %
<b>Dyipol GLL-70</b>	Synthetic and ester oil	Thick liquid	40± 2	7.0-8.0 / Anionic	<b>Dyipol GOL-70</b> 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. <b>Dyipol GLL-70</b> penetrates very well into the leather, even without the additional use of other oils; <b>Dyipol GLL-70</b> imparts a well balanced fatliquoring effect throughout the cross section of leather. Leather produced with <b>Dyipol GLL-70</b> has very good inner softness. <b>Dyipol GLL-70</b> is versatile fatliquoring agent suitable for all types of leather such as gloving, upper, softy, nappa, garment, suede, nubuck and industrial leather. <b>Dyipol GLL-70</b> is also suitable for vegetable tanned leathers. It can be used 3-10 % depending on type of leather to be produced and result desired.

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