

# SPYOL

Technical Information

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## **New Generation Fatliquor based on Special Softeners**

<b>Appearance</b>	: Milky White
<b>Active Matter</b>	: 65 ± 2%
<b>pH</b>	: 6 to 8
<b>Stability</b>	: Stable to acids & salts under usual tannery conditions
<b>Shelf Life</b>	: Up to one year

### **Properties :**

1. Uniform softness,
2. Excellent smoothness,
3. Very good light fastness with waxy feel,
4. Produces smooth grain and imparts round feel with good body,
5. Removes all dirt from leathers & gives excellent whiteness,
6. Can be use before dyeing in pastel shades.
7. Also can be used as a single compact fat for gloving, upholstery, garments, shoe upper & white leathers.

### **Application :**

SPYOL is a unique fatliquor with versatile applications for a variety of leathers. Typical recipes are

1) Garments, Gloving & Upholstery Leather:

6 -15%	SPYOL
2 - 5%	DECIL X-30

2) Shoe Nappa, Nubuk Side & Hunting:

8 %	SPYOL
5 %	DECIL S133

3) Suede Leather:

6 – 8%	SPYOL
5%	DECIL SM

4) Softy Upper from cow hide:

4 – 5%	SPYOL
5%	DECIL S-133

5) Softy Buff calf & Upper:

6 – 10%	SPYOL
4%	DECIL S-133

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# SPYOL – 707

Technical Information

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## **New Generation Multi-charged Compact Fatliquor based on Phosphited Oils**

<b>Appearance</b>	: Yellow to own viscous liquid.
<b>Active matter</b>	: 65 ± 2%
<b>pH</b>	: 6 to 8
<b>Stability</b>	: Usual Tannery Conditions.
<b>Shelf Life</b>	: Minimum six months (stir well before use).

### **Properties :**

1. It is a special fatliquoring agent for the production of nourished leather & pleasant wet touch in leather.
2. It shows an optimum penetration imparting to the leather an excellent softness, fluffy character with a mellow and silky feel as well as smooth & fine grain.
3. Very good filling properties.
4. Control the water absorbency.
5. Improve the grain resistance.
6. Good light fastness.

### **Application**

SPYOL – 707 is suitable for all type of leathers i.e. Nappa, Softy Upper, Nubucks, Garment, Upholstery, Gloves and Suedes.

As a top fatliquor for suedes, where sheen is important.

The amount required depends on the type of leather & the fatliquoring effect desired.

For soft types of leather the amount to lies at 6 – 20% recommended as a single fat to reduce the inventory for many fats.

However, can be used in combination with

SPYOL

DECIL

DECIL X-30

DECIL SM

DECIL S-133

SPYOL – 707 also reduce the water absorption and wettability of leather treated with it and improve, the fatliquoring effect.

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# DECIL

Technical Information

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## ***Fatliquor based on blend of Phospholipids, fatty matters & multicharge softeners***

<b>Appearance</b>	:	Off white to Milky White Emulsion
<b>Active Matter</b>	:	50 ± 2%
<b>pH</b>	:	6.5 to 8
<b>Charge</b>	:	Anionic
<b>Stability</b>	:	Stable to acids, salt under usual tannery conditions
<b>Shelf Life</b>	:	Up to one year

### **Properties :**

1. Uniform softners,
2. Excellent smoothness,
3. Very good light fastness with waxy feel,
4. Produces smooth grain and imports round feel with good body,
5. Non yellowing and High bleaching effect.
6. Can be used before dyeing.

### **Application :**

DECIL is a unique Fatliquor with versatile applications for a variety of leathers.

Typical recipes are:

- 1) Cattle Upholstery Leather:

10 -15%	DECIL
2 - 5%	DECIL PRIME
- 2) Clothing Leather

8 -10%	DECIL
2 - 5%	DECIL X-30
4 - 6%	DECIL FS 300
- 3) Sheep Skin

8 - 10%	DECIL
5 - 10%	DECIL SM

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# DECIL S-133

Technical Information

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## **Universal Multi-Charged Compact Fatliquor**

<b>Appearance</b>	: Yellowish brown viscous liquid.
<b>Solids</b>	: 55 $\pm$ 2%
<b>pH as such</b>	: 6 to 9
<b>Charge</b>	: Multi-charged
<b>Stability</b>	: Stable to acids and salts under usual tannery conditions
<b>Shelf Life</b>	: Up to one year

### **Properties :**

1. Fatliquoring effect with good penetration, excellent light fastness.
2. Imparts pleasant wet touch with waxy surface handle, excellent softness.
3. Improve grain resistance controls water absorbency Silky Feel to leather.

### **Application**

Decil S-133 is a universal multi-charged compact Fatliquor suitable for all types of soft leather i.e. Nappa, Soft Upper, Nubucks, Gloves, and Suedes. It can be used as final Fatliquor for suedes, where sheen is important.

Decil S-133 can be used alone or in conjunction with other anionic, synthetic or natural for liquoring agents.

Decil S-133 has a number of uses. It can be used in rechroming as chrome stable fatliquor, it can be used as pre fatliquor, it can be used in main fat liquor.

Decil S-133 can be used as a sole fatliquor to lining, gloving and garment nappa.

### **Suggested uses**

#### **Garment Nappa, Gloving, Upholstery :**

**After Neutralization : Decil S-133 - 4%**

**In Main Fat:** Decil S-133 - 4-8%  
Decil X-30 - 4%-6%  
Decil FS-300 - 4%-6%

**In suede :** Blend 2-4% in main fat

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# DECIL X-30

Technical Information

**Versatile Synthetic Fatliquor based on Sulphited Hydrocarbons & Paraffin Wax.**

<b>Appearance</b>	: Clear yellow to medium brown free-flowing liquid.
<b>Active Matter</b>	: 70 ± 2%
<b>Stability</b>	: Stable to acids, alkalis, salts under usual tannery conditions
<b>Light fastness</b>	: Excellent
<b>Shelf Life</b>	: Up to one year
<b>Charge</b>	: Anionic

**Properties :**

1. Decil X-30 gives a fine emulsion capable of deep penetration.
2. Imparts good Softness without affecting the firmness of grain.
3. Improves stability and homogeneity of fatliquoring emulsions.
4. Ideally suitable for high quality leather.

**Application :**

- 1. Softie upper/Nubuck/corrected grain leather :** **Pre Fatliquor** - Decil X-30 -1-2%  
**Main Fatliquoring** - Decil X-30 -2-4%  
 Decil B60 -2-4%  
 Decil SK -0.2%

**2. Garments- Retan Dye Fat**

<b>Decil S-133</b>	<b>4</b>	<b>30'</b>
<b>Retannage</b>	As per physical properties of leather	
<b>Decil SS</b>	<b>2</b>	
<b>Decil S-133</b>	<b>4</b>	
<b>Decil X-30</b>	<b>4</b>	<b>½ 60'+ 60''</b>
<b>Formic Acid</b>	<b>2.5</b>	<b>3x10'+30'</b>

**3.Upholstery**

<b>Decil S-133</b>	<b>4</b>	<b>30'</b>	
<b>Dye Leveling agent</b>	<b>1</b>	<b>10'</b>	
<b>Dye</b>		<b>60'</b>	<b>check Cross</b>
<b>Retannage</b>			As per physical properties of leather
<b>Decil FS-300</b>	<b>4</b>		
<b>Decil S-133</b>	<b>6</b>		
<b>Decil X-30</b>	<b>4</b>	<b>½ 60+1/2 60'</b>	
<b>DECIL LC-60</b>	<b>4</b>		
<b>Formic Acid</b>	<b>3</b>	<b>3x30'+30'</b>	<b>Check Exhaust, D/W</b>

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# DECIL XE

Technical Information

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## **Synthetic Fatliquor With Excellent Light Fastness**

**Appearance** : Viscous, pale yellow, pourable liquid.

**Active Matter** : 60 ± 1%

**pH of 10% emulsion** : 7 to 8

**Charge** : Anionic

**Light Fastness** : Good

**Stability** : Stable to acids & alkalis under usual tannery conditions.

**Shelf Life** : Up to one year when stored away from heat and moisture

### **Properties :**

1. Excellent light fastness.
2. Very good grain lubrication.
3. Improved grain resistance and softness.
4. Provides silky touch to surface.

### **Application :**

Decil XE is extra ordinary Fatliquor produces good softness with round handle and warm touch to the leather.

Can be used successfully in shoe upper, garment Nappa, Upholstery and gloving.

### **Suggested uses :**

<b>Uppers</b>	Suede's	: 2-3%
	Nubuck	: 2-3%
	Nappa	: 4-6%
	F/Grain softie	: 2-3%

<b>Garments</b>	Sheep nappa	: 4-6%
	Cow nappa	: 6-8%
	Buff Calf nappa	: 6-8%

<b>Gloving</b>	Sheep	: 4-6%
	Goat	: 4-6%
	Buff-Calf	: 6-8%
	Cow-Calf	: 5-7%

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# DECIL SS

Technical Information

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## **Functional Substitute of Sperm Oil**

**Appearance** : Light brown pourable liquid.

**Active Matter** : 60 ± 2%

**pH (10% emulsion)** : 7 to 8

**Charge** : Anionic

**Light Fastness** : Excellent

**Stability** : Very good with light charge fatliquors and retanning agents. Also compatible with non-ionic products.

**Storage** : This product has 6 months shelf life when stored under shelter. Protect from moisture.

## **Properties :**

1. Ideally fulfill the requirement of Sulphated Sperm oil.
2. The product is specially designed for multipurpose uses - From Shoe Upper to Garment, Goods, Gloving, and Upholstery
3. Leather gives unmatched results produces uniform softness with good fullness, and pleasant handle.
4. DECIL SS has good compatibility with DECIL X-30, DECIL LC-60, DECIL S-133, DECIL DX-20, DECIL S-90.

## **Application :**

**Can be used in PreFat and main Fatliquor.**

Full Grain / C.G.softie : 2-3%

Sheep nappa : 4%

Cow nappa / goods : 4-6%

Buff Calf nappa : 6-8%

Buffalow goods : 6-10%

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# DECIL LC-60

Technical Information

**Extremely efficient fatliquoring agent for automotive, upholstery and garment leather**

<b>Appearance</b>	:	Dark Brown liquid
<b>Active Matter</b>	:	60 ± 2%
<b>pH</b>	:	Approx 7
<b>Charge</b>	:	Anionic
<b>Stability dyestuffs</b>	:	Compatible with synthetic & vegetable tanning agents, stable to anionic
<b>Storage Stability</b>	:	Upto 12 months when properly stored. When the product is stored below the cloud point, it can Become inhomogeneous. Therefore it has to be heated up to approx. 20° C and to be stirred well before use. Store away from direct heat.

## Properties :

1. Increased softness
2. Fine grain
3. Pleasant, round, nourished feel
4. Good grain firmness
5. With an appropriate formulation, automotive leathers with good fogging behaviour can be obtained.

**Application** : All indications are based on the shaved weight.

## For Cattle:

Automotive upholstery :	2 – 4 %	DECIL LC-60
	5 – 10 %	Decil S-133
	5 – 10 %	Decil K-20

Automotive upholstery:	1 – 3 %	DECIL LC-60
	6 - 10 %	Decil S-133

Chrome free leather :	4 – 8 %	DECIL LC-60
	5 – 12 %	Decil S-133
	4 – 12 %	Decil K-20

Upholstery nappa :	3 – 6 %	DECIL LC-60
	4 – 10 %	Decil 94-S
	6 – 10 %	Decil S-133

## For small skins:

Nappa :	2 - 6 %	DECIL LC-60
	7 - 10 %	Decil S-133

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# DECIL L-100

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## **Lanolin containing fatliquoring agent for all kinds of leather**

<b>Appearance</b>	:	Light Brown paste
<b>Active Matter</b>	:	60 ± 2%
<b>pH</b>	:	6.5 to 8.5
<b>Charge</b>	:	Anionic
<b>Stability</b>	:	Compatible with all anionic leather auxiliaries, stable to neutral salts
<b>Storage Stability</b>	:	Up to 12 months when properly stored. Mix well before use.

### **Properties :**

1. Leather treated with DECIL L-100 has a good inner softness and a slightly waxy touch.
2. DECIL L-100 is very suitable to Fatliquor vegetable leather. The sensitive grain remains durably elastic and can be polished very well.

### **Application :**

**Dilution Method** : Impaste & emulsify with water at 50-60° C

All indications are based on the shaved weight.

For softy leather types :  
2 – 4 % DECIL L-100  
4 – 8 % DECIL S 133

For clothing leather :  
1 – 3 % DECIL L-100  
10 – 14 % DECIL S-133

For upholstery leather :  
2 – 4 % DECIL L 100  
10 – 12 % DECIL S-90

For suede split :  
1 – 2 % DECIL L-100  
2 – 8 % DECIL S-133

For vegetable leather :  
2 – 4 % DECIL L-100  
2 – 3 % DECIL K-20  
2 – 3 % DECIL S-133

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# DECIL B-60

Technical Information

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**Fatliquor based on Sulphonated synthetic oil and modified fatty matter.**

<b>Appearance</b>	: Yellowish hazy mobile liquid
<b>Active Matter</b>	: 50% $\pm$ 2%
<b>pH</b>	: 6 to 8
<b>Charge</b>	: Anionic
<b>Stability to Electrolytes</b>	: Stable to acid, alkalis, salt under usual tannery conditions.

**Properties :**

1. Excellent light fastness
2. Good heat resistance.

**Application :**

DECIL B-60 produces a fatliquoring effect very similar to based on Sulphated natural Sperm oil.

DECIL B-60 is suitable in particular for fatliquoring chrome leathers of top quality, besides it is an ideal fatliquoring agent for leather tanned or retanned with zirconium salt.

Decil B-60 is ideally suitable for producing various types of Upper Leather like Aniline, Resin Softy, Corrected Grain, Burnish, Nubuck etc.

It produces soft, supple, round leather of excellent fullness with firm grain; it imparts dry touch on the surface which is essential requirement for finishing upper crust.

Quantity to use for upper is from 2-6%, depending upon the required fatliquoring effect.

Decil B-60 is having good compatibility with mineral and vegetable tanning agents.

It can be used frequently in main Fatliquor as well as together with retannings.

Uses- after neutralization in pre / intermediate / main fat.

Cow Softy Upper	:	3 - 6%
Goat Glazed	:	4 – 6 %
Burnish Upper	:	2 - 4%
Cow CG- Upper	:	3 - 4%
Buff Calf and Cow Nubuck	:	2 - 4%

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# DECIL S-90

Technical Information

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## ***Fatliquor with special softeners for light Leathers***

**Appearance** : Yellow to Brown clear liquid

**Active Matter** : 52 + 2%

**pH** : 6 to 8

**Stability** : Stable to synthetic and vegetable tanning agent as well as anionic dyes, compatible with neutral salts and acids in usual concentration little stable to chrome & aluminum salts.

**Shelf Life** : Six months

### **Properties :**

1. Leathers treated with DECIL S-90 are light weight with excellent softness along with a pleasant touch.
2. It produces good light fastness, natural odour and heat resistance to the leather.
3. Thanks to its uniform dispersion, this gives maximum inner softness and good leveling of the dyes on the grain. Result is clearer and brighter shades.

### **Application :**

Ideally, DECIL S-90 can be used as the main fat liquor for any type of leather.

The other fat liquors that can be combined with DECIL S-90 are as under:

DECIL X-30

DECIL SS

DECIL LC-60

DECIL FS-300

DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

The recommended dosage of DECIL S-90 for various types of leathers are as under:

Sheep nappa : 6-8%

Cow nappa/goods : 8-12%

Buff Calf nappa : 6-14%

Buffalo goods : 8-10%

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# DECIL FS-100

Technical Information

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## **Synthetic Fatliquor**

<b>Appearance</b>	:	Colorless to milky emulsion.
<b>pH as such</b>	:	4 to 6
<b>Active Matter</b>	:	24 ± 2%

## **Properties :**

1. DECIL FS-100 is a clear colourless to milky emulsion.
2. It imparts to the leather surface a smooth, silky and soft handle.
3. It enhances the rub-fastness in many cases.

## **Application :**

DECIL FS-100 is a softness modifier

It can be used along with other fat liquor for extra softness and luster

It is also used either alone for over spraying finished leather or in top coating formulations

Suggested formulations for soft leather like Garment Nappa, Upholstery, Goods Leather is from 4-10%.

## **To soften the processed crust.**

Decil FS-100 - 10 Parts

Liquid Ammonia - 01 Part

Deciwet N - 01 Part

Water - 98 Part

2x Spray leave Over Night

Next Day, hang dry, stake, toggle, trim and take the crusts for finishing.

The other fatliquors that can be combined with DECIL FS-100 are as under :

DECIL X-30

DECIL SS

DECIL LC-60

DECIL FS-300

DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

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# Decil FS-300

Technical Information

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## **Synthetic Odourless Substitute Of Sulphited Fish Oil**

<b>Appearance</b>	: Yellow to Brown
<b>pH</b>	: 6 - 8
<b>Active Matter</b>	: 55 ± 2%
<b>Charge</b>	: Anionic
<b>Stability</b>	: Stable to acids, salts under usual tannery conditions.
<b>Shelf Life`</b>	: Six month

### **Properties :**

1. It's a never before blend of fat liquor which can replace Fish oil up to an extent.
2. It gives softness and physical properties matched to Fish oil with a pleasant odour to the leather.

### **Application :**

DECIL FS-300 is suitable for producing all type of soft leathers.

It can be used frequently from 4-10%. In Garment nappa, Gloving and Leather Goods leather.

Quantities vary from degree of softness required.

The other fat liquors that can be combined with DECIL FS-300 are as under :

SPYOL

DECIL

DECIL X-30

DECIL SS

DECIL LC-60

DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

DECIL FS-300 can be used in the neutralization bath to get extra softness and to increase the tensile strength of the leather.

DECIL FS-300 can be used as a pre-fat to get good penetration before the retanning starts to get better dispersion of the retanning syntans.

# DECIL K-20

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**Specialty Fatliquor based on blend of Sulphonated Olefins, Fatty Matters and Glycerides.**

<b>Appearance</b>	: Dark yellow to light brown liquid.
<b>Active Matter</b>	: 55 ± 2%
<b>pH</b>	: 6 to 8
<b>Stability</b>	: Stable to acid, alkali & salts under usual tannery conditions.
<b>Shelf Life</b>	: Six months

**Properties :**

1. Uniform softness, excellent smoothness with surface feel silky touch & deep penetration without load in weight to leather.
2. Produce smooth grain, improve round feel with good body.
3. No bleaching, non-yellowing or leather.
4. Good light fasteners.

**Application :**

**Use alone:**

The amount required depends on types of leather & the fat liquoring effect desired for soft leather.

**Suggested Uses:**

Clothing & furniture leather.

6 -8 % DECIL K - 20

4-6%% DECIL S-133

4-6% DECIL FS-300

The other fat liquors that can be combined with DECIL K-20 are as under :

SPYOL

SPYOL 707

DECIL

DECIL X-30

DECIL SS

DECIL LC-60

DECIL FS-300

DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

## **DECIL NB**

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### ***Fatliquor with a combination of special additives***

<b>Appearance</b>	: Yellowish brown liquid.
<b>Active Matter</b>	: 60 ± 2%
<b>pH</b>	: 6 to 8
<b>Stability</b>	: Stable to alkali, acid & salts under usual tannery conditions.
<b>Shelf Life</b>	: Six months

#### **Properties :**

1. It produces uniform softness, excellent smoothness with silky touch & deep penetration without increase in weight to leather.
2. Improved round feel with good body.
3. No bleaching, no yellowing of leather.

#### **Application :**

Use alone: - The amount required depends on type of leather & the fat liquoring effect desired.  
For Soft Leather : 6 -14%

#### Special combination fat liquoring formulation

- a) Hide clothing & Furniture leather
  - 6 - 10% DECIL NB
  - 4 - 6% DECIL SL
  - 2 - 5 % DECIL X-30
  - 2 - 6% DECIL SS
- b) Suede Hide Clothing Leather & Gloves
  - 6 - 8% DECIL NB
  - 4 - 6% FS-300
  - 2 - 6% DECIL S-133

The other fat liquors that can be combined with DECIL NB are as under :

SPYOL  
SPYOL 707  
DECIL  
DECIL X-30  
DECIL SS  
DECIL LC-60  
DECIL FS-300  
DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

## **DECIL DX-20**

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## **Synthetic Fatliquor**

<b>Appearance</b>	: Yellowish brown liquid.
<b>Active Matter</b>	: 50 ± 2%
<b>pH</b>	: 8 to 10
<b>Stability</b>	: Stable to acids, alkalis, salts under usual tannery conditions.
<b>Shelf Life</b>	: Six months when stored below 28°C
<b>Light Fastness</b>	: Excellent
<b>Stability</b>	: Very fine emulsion in cold & hot water. Very good with like charge Fatl iquors & Retaining Agents. Also compatible with non-ionic products.
<b>Charge</b>	: Anionic

### **Properties :**

1. Decil DX-20 is a unique blend of highly penetrative fat liquor to produce various types of soft leather like Garment Nappa, Gloving.
2. The percentage recommended is 4-10% depending upon the degree of softness required. It gives full, round leather with a perfect inner softness along with a pleasant waxy touch.

### **Application :**

Use alone: - The amount required depends on type of leather & the fat liquoring effect desired.

For Soft Leather : 6 -14%

For Uppers / softies : 4 – 8 %

The other fat iquors that can be combined with DECIL DX-20 are as under :

SPYOL

SPYOL 707

DECIL

DECIL X-30

DECIL SS

DECIL LC-60

DECIL FS-300

DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

## **DECIL PRIME**

*Technical Information*

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### ***Fat liquor With Extra Softness And Humectant Effect***

<b>Appearance</b>	:	Creamish yellow viscous emulsion
<b>Active Matter</b>	:	45 ± 2%
<b>pH</b>	:	3 to 5
<b>Stability</b>	:	Stable to acids, alkalies under usual tannery conditions
<b>Shelf Life</b>	:	Six months

#### **Properties :**

- 1) Excellent softness, very good fixation with leather fiber & therefore a long lasting softness achieved.
- 2) Even and deep penetration.
- 3) Good light fastness.
- 4) Good luster effects.
- 5) Improve water resistance.
- 6] Hardening of material during transportation is avoided.

#### **Application :**

DECIL PRIME is used in main fat liquoring or in combination with other fat liquors for extra softness.

1) Nappa Upper Leather:

2 - 4%	DECIL PRIME
6 - 8%	DECIL S-133

2) Garment Leather

4 - 10%	DECIL PRIME
6 - 10%	DECIL FAT LIQUOR

3) Upholstery Leather

2- 4%	DECIL PRIME
3 - 5%	DECIL X-30
2 - 5%	DECIL S-133

The other fat liquors that can be combined with DECIL NB are as under :

SPYOL  
SPYOL 707  
DECIL  
DECIL X-30  
DECIL SS  
DECIL LC-60  
DECIL FS-300  
DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

## **DECIL SM**

*Technical Information*

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## ***Semi-Synthetic Fat liquor Based On Unique Blend Of Natural & Synthetic Sulphated Oils***

<b>Appearance</b>	: Pale yellow, clear mobile oil.
<b>Active Matter</b>	: 55 ± 2%
<b>pH</b>	: 6.5 to 8
<b>Stability</b>	: Stable to acids, salts & alkalies under usual tannery conditions.
<b>Shelf Life</b>	: Six months

### **Properties :**

- 1) Good softness.
- 2) Give a pleasant waxy handle keeping the grain layer flexible & protecting it from cracking.
- 3) Suedes get a fine silky luster.
- 4) On chrome shoe upper & softy leathers DECIL SM improve the touch and the softness without influence the grain strength.
- 5) DECIL SM
  - a has high emulsifying capacity for water insoluble, synthetic & mineral oils. So, adequate quantity of synthetic & mineral oils can be emulsified easily.
- 6) The Fat liquor is lightfast so suitable for white & pastel shade leather

### **Application :**

DECIL SM can be used alone, but it is mainly used in combination with other Fat liquors.

### **Use Alone:**

The amount required depends on type of leather & the fat liquoring effect desired for

Soft Leather type:

6 – 20%      DECIL SM

### **Special Combination Fat liquoring Formulations:**

Hide Furniture Leather

6 - 10%      DECIL SM  
6 - 10%      DECIL K-20  
2 - 6%      DECIL S-133

Hide clothing leather

6 - 8%      DECIL SM  
4 - 6%      DECIL FS-300  
2 - 6%      DECIL S-133

Goat upper leather soft

4%      DECIL SM  
1%      DECIL SK

## **DECIL LW**

*Technical Information*

### ***A Specialty Fat liquor for nourishing and retaining Moisture***

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<b>Appearance</b>	: Light yellow clear mobile oil.
<b>Active Matter</b>	: 55 ± 2%
<b>pH as such</b>	: 6 to 8
<b>Charge</b>	: Non Ionic
<b>Stability to Electrolytes</b>	: Stable to acids, alkalies, salts, hard water under usual tannery conditions.
<b>Shelf Life</b>	: Six months

**Properties :**

1. Low specific density so only little additional weight to leather.
2. Good light fastness.
3. Clear & more brilliant shades are obtained in dyeing vegetable / synthetic tanned leathers.
4. No yellowing of leather, slightly bleaching effect.
5. Emulsify water insoluble oils, mineral oil, DECIL SK oil, upto 100% of its own weight in water to form perfectly stable emulsion.
6. Good fixation of fat, uniform dispersion & moisture balance.

**Applications**

Soft type of Leather & Shoe upper to improve penetration.  
 Produces a fat liquoring effect very similar to fat liquoring products based on natural sperm oil.

To be used in various types of leathers from 2-4%.

The other fat liquors that can be combined with DECIL LW are as under :

SPYOL

SPYOL 707

DECIL

DECIL X-30

DECIL SS

DECIL LC-60

DECIL FS-300

DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

## DECIL EURO

*Technical Information*

***A Specialty Fat liquor Based On A Blend Of Synthetic Fatty Matter & Sulphated Oils.***

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<b>Appearance</b>	:	Creamish yellow viscous emulsion
<b>Active Matter</b>	:	55 ± 2%
<b>pH as such</b>	:	6 to 8
<b>Stability to Electrolytes</b>	:	Stable to acids, alkalis under usual tannery conditions.
<b>Shelf Life</b>	:	Six months

**Properties :**

1. Uniform softness with surface feel silky touch
2. Regulates the penetration of other Fat liquors.
3. Very good light fastness.
4. Enhances the fullness.
5. Improve the grain resistance and smoothness.

**APPLICATION :**

Upholstery, Clothing & Gloving:

6-8% DECIL EURO  
 8-10% Decil S-133  
 4-5% DECIL SM

Shoe Nappa, Nubuk Side & Hunting:

2-4% DECIL EURO  
 3-6% DECIL B-60  
 2-3% DECIL FS-300

The other fatliquors that can be combined with DECIL EURO are as under :

SPYOL

SPYOL 707

DECIL

DECIL X-30

DECIL SS

DECIL LC-60

DECIL FS-300

DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

## **DECIL K-EF**

*Technical Information*

***A High performance Fat liquor based on blend of Natural & Synthetic Sulphated Oils.***

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<b>Appearance</b>	: Light to pale yellow clear liquid.
<b>Active Matter</b>	: 45 ± 2%
<b>pH</b>	: 6 to 8
<b>Stability</b>	: Stable to acid, alkalis & salts to usual tannery condition.
<b>Shelf Life</b>	: Six months

**Properties:**

1. Good internal softness
2. Gives a pleasant waxy handle, keeping the grain side flexible & protecting in from cracking.
3. Gives fine silky luster

**Applications :**

The amount required depends on type of leather & the fat liquoring effect desired.

It is recommended to use alone or together with other fat liquoring agent for shoe upper, lining, etc.

This can also be suitably used for leathers like CG Uppers, Smooth finished uppers etc.

This product is specially designed for shoe upper & linings. It can be used 2-4% with combination to other Fat liquors.

The other fat liquors that can be combined with DECIL K-EF are as under :

- SPYOL
- SPYOL 707
- DECIL
- DECIL X-30
- DECIL SS
- DECIL LC-60
- DECIL FS-300
- DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

**For Burnishing effect**

As a top fatliquoring

- DECIL K-EF - 0.5
- DECIL SM - 0.5

## **DECIL – SK**

*Technical Information*

**A speciality oil which gives burnishing and humectant effect**

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<b>Appearance</b>	:	Yellowish clear oily liquid
<b>Active Matter</b>	:	100%
<b>PH</b>	:	Anionic
<b>Fat value</b>	:	100%
<b>Viscosity</b>	:	Medium high
<b>Shelf Life</b>	:	Six months

**Properties:**

1. DECIL SK is functional substitutes of Neats foot oil.
2. Non-Spewing.
3. It has superb light fastness
4. It tends to lubricate grain surface to avoid cracking
5. Do not impart any disagreeable odour to the leather even after long storage.
6. High gloss to finishes

**Application :**

DECIL SK is used as a free oil component in the conventional manner for glace kid & upper leathers. The quantity to be used will depend on the type of leather, thickness, amount of retaining or filling, imparted and the power of self emulsified oils used to emulsify free oils.

**In main fat liquoring**

Decil SK- 0.2-0.5%  
Blended with other fat liquors

**For Burnishing effect**

As a top fat liquoring

DECIL CW - 0.5  
DECIL SK - 0.5

## **DECIL HI-BLEACH**

*Technical Information*

***Hi Performance Bleaching Agent***

**Appearance** : Yellowish mobile liquid.

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**Active Matter** : 40 ± 2%  
**pH** : Anionic  
**Stability** : Stable to alkali & salts  
**Shelf Life** : Six months

**Properties** :  
1. Excellent bleaching effect on leather.  
2. It remove stains & give white leather & giving overall white leather.  
3. Can be used before dyeing for excellent result of dyes.

**Application** :

DECIL HI-BLEACH is most suitable for bleaching vegetable tanned E.I. leather, Chrome – tanned wet blue & also pickled hides and skins.

DECIL HI-BLEACH strips off most of the surface stains, free oils & greases, dirt, etc. & prepare for receiving fresh retannage.

**Uses-**

In wetting Back-

Water-200%  
Wetting agent- 0.5%  
Degreasing agent-0.5% 20'  
DECIL HI-BLEACH-1% 30-45'  
Drain/Wash

For old wet blues –

Water – 200%  
DECIWET HA – 1.0 % - 60'  
DECIL HI-BLEACH – 1.0 – 1.5% - 30'  
Leave O/N, N.D. run for 30', Wash and check bleaching effect.

For old EI tanned leathers –

Water – 200%  
DECIWET HA – 1.0 % - 60'  
DECIL HI-BLEACH – 1.0 – 1.5% - 30'  
Leave O/N, N.D. run for 30', Wash and check bleaching effect.

## DECIL – CW

*Technical Information*

***Cationic Fatliquor with excellent dispersing effect***

**Appearance** : Off-white paste  
**Active Matter** : 20 ± 2%  
**PH** : 4 to 6

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**Stability** : DECIL CW is stable to acids, natural salts and basic chrome complexes used in leather processing.

**Properties :**

1. DECIL CW helps to achieve a more uniform distribution of chrome in tanning process.
2. As a top fat liquor DECIL CW imparts a smooth waxy and pleasant handle.
3. It prevents damaging the grain by abrasion during drumming in short liquors.
4. Multi-charge Fat liquors can be prepared using DECIL CW that will increase superficial fat liquoring effect.

**Application :**

**Rechroming Cow /upper**

Water -100  
Formic acid - 0.3  
Chrome - 4  
DECIWET HA -0.2 run 40`  
Sodium Formate-0.5  
Sodium Bi Carb-0.5 run 30' pH -3.8-4.2  
Decitan SP-3 Run 30'  
Sod. Bi Carb-0.5 Run30' Check exhaust, Drain/wash  
Neutralisation as usual.

**Pre-fat liquoring in chrome Tanning of leather.**( % are based on pickled weight)

100% water  
% Basic Chromium Sulphate - ( 4 Hrs)  
Add : 1 - 3% DECIL CW - 30 Minutes,  
Basify as usual.

**Retanned Leather** ( % are based on shaved weight )

100% Water  
3% DECIL S-133  
2% DECIL SM  
2% DECIL EURO - (45 minutes )  
Add : 0.5% Formic acid ( 1: 10) (15 minutes)  
Add : 1 – 2% DECIL CW ( 20 minutes )

**Suede Leather** (on crust weight ) Top fat liquoring

400% water  
0.5-1.0% DECIL CW ( 30 minutes )

## DECIL SLD

*Technical Information*

***Universal Non-ionic Semi-synthetic Fat liquor based on Natural Waxes***

**Appearance** : Viscous, blackish-brown liquid.

**Active Matter** : 60 ± 2%

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**PH** : 6.5 to 8.5

**Charge** : Multicharge

**Light Fastness** : Good

**Shelf Life** : Up to 6 months when stored in original packing. Avoid freezing, stir well before use.

**Properties :**

1. Specially formulated to impart moist and nourished feel to the leather.
2. Impart soft & silky touch.
3. Also suitable for buffalo softy and Upholstery crust.
4. Particularly suitable for Nappa & Upholstery leather.

**Applications :**

The amount required depends on type of leather & the fat liquoring effect desired.

It is recommended to use alone or together with other fat liquoring agent for shoe upper, lining, etc.

This can also be suitably used for leathers like CG Uppers, Smooth finished uppers etc.

This product is specially designed for shoe upper & linings. It can be used 2-4% with combination to other Fat liquors.

The other fat liquors that can be combined with DECIL SLD are as under :

SPYOL  
SPYOL 707  
DECIL  
DECIL X-30  
DECIL SS  
DECIL LC-60  
DECIL FS-300  
DECIL SK

The above recommendations are to be taken for achieving a certain specific property in the leather

## DECITAN SP

*Technical Information*

### **Low pH High-performance Acid Acrylic Syntan**

**Appearance** : Creamy White, moderately viscous liquid  
**Total Solids** : 40% ± 2%  
**pH (10% Solution)** : 2.5 to 3

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<b>Colloidal Charge</b>	:	Anionic
<b>Light Stability</b>	:	Excellent
<b>Aging Stability</b>	:	Excellent
<b>Specific Gravity</b>	:	1.13

DECITAN SP shows an advantage over other retanning agents in its ability to plump leather.

The temper of leather made using this product can range from a soft glovy type leather to a firm shoe side upper leather depending upon application conditions. In addition, it has excellent levelling properties as well as possessing outstanding light fastness and stability on aging. These superior properties make DECITAN SP of prime interest and utility in the retanning of a wide variety of chrome tanned leathers. Chrome leather processed with DECITAN SP alone or in combination with conventional retanning materials is more receptive to impregnation. Furthermore, certain special formulations with DECITAN SP give leather with unique properties.

## **PRINCIPLES OF APPLICATION OF DECITAN SP**

### **I. Astringency :**

DECITAN SP reacts very readily with chrome tanned leather. As a result, if added directly to chrome stock at higher percentage levels, it will tend to pack the grain layer so that its elongation is reduced. Therefore, in retanning chrome stock with DECITAN SP, conditions for bringing greater penetration of the Syntan should be employed. This can be accomplished by a prior treatment with 1-2% of a sulfonated syntan. In addition, lower temperatures favour greater penetration.

### **II. Float and Temperatures**

Experience has shown that a 50 – 100% float yield satisfactory exhaustion. A temperature range 30° - 40°C is recommended for retannage. For improved bleaching in making white leathers temperature upto 50°C may be used.

### **III. Running Time and Exhaustion**

Ordinarily running times of 30 to 60 minutes are sufficient to exhaust DECITAN SP effectively. To test qualitatively for exhaustion, a sample of liquor should be filtered, then tested as for a syntan. Acidity the solution with a few drops of 10% formic acid and then add several drops of a 1% gelatin solution. A precipitate indicates presence of DECITAN SP and incomplete exhaustion. If the test solution remains clear, DECITAN SP has been completely exhausted.

### **IV. pH Effects**

Chrome leather for retanning should have a spot pH of 3.7 to 4.4. At the higher pH range more effective beaching is obtained for white leathers. Once leather has be retanned with DECITAN SP it can be neutralized to a pH of 5.5 maximum.

### **V. Fat liquoring**

Combination of fat liquors employing a "mayonnaise" type of a oil along with some sulfated oil and raw Neats foot oil have been found to be generally applicable on leathers made using DECITAN SP. Where poor exhaustion of fat liquor is encountered, salt may be added to improve the exhaustion. For grain lubrication, cationic topping oils may be used with beneficial effect.

### **VI. Dyeing**

DECITAN SP makes leather more substantive to basic dyestuffs and less so to acid and direct dyestuffs. If the leather is dyed before the retanning step the effect on acid and direct dyes can

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be minimized. Another alternative is to add the dye together with the first application of syntan and / or DECITAN SP. As would be expected, the results are influenced by the individual dye used.

### **VII. Compatibility with other Tanning Materials**

DECITAN SP may be used in conjunction with chrome tanning compounds, unless they are unduly concentrated, to obtain interesting results. In addition, DECITAN SP is compatible with a wide range of vegetable extracts and syntans.

### **SOME PROPERTIES OF CHROME LEATHER RETANNED WITH SYN - SP**

Extensive studies were carried out to determine changes in the characteristics of chrome leather which are brought about by retanning with DECITAN SP. The results of this work are given below.

#### **I. Thickness**

DECITAN SP plumps leather more than the other retans.

#### **II. Temper**

The effect on temper imparted by DECITAN SP is comparable to the decreases in temper obtained by a chrome retannage.

#### **III. Light fastness**

Since the light fastness of the product itself is outstanding, leathers retanned with it are much superior in this property to those retanned with other retanning materials.

#### **IV. Aging Stability**

Again, because of the excellent aging stability of this unique syntan, leathers retanned with it are excellent in this respect compared to those having other retannages.

## **DECITAN AP-40**

*Technical Information*

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### ***Synthetic Organic Resin Tanning Agent based on Water soluble Acrylic Polymers***

**Appearance** : Light Yellowish Brown Liquid.

**Total Solids** : 40 ± 2%

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pH : 5 to 6

**Properties :**

1. DECITAN AP-40 is highly viscous but readily pourable and dilutable with water.
2. The product is not miscible with cationic products i.e. mineral tanning agent but perfectly compatible with synthetic and vegetable tanning agents, sulphited fat liquors, anionic dyes and other anionic products.
3. This product may precipitate pH < 4.0.
4. Very small amount of DECITAN AP-40 makes the leather grain fully tight without impairing the fineness of the grain and natural feel.
5. DECITAN AP-40 is light fast and gives level shades when used in white leather.
6. It gives higher degree of whiteness on pale chrome leathers.
7. The leather retanned with DECITAN AP-40 can be readily finished and adhesion of the finish is improved in comparison to the other conventionally retanned leather.

**Application**

DECITAN AP-40 is used for retanning of chrome leather to improve fullness and tightness of the grain without causing any harshness of grain.

Before retannage with DECITAN AP-40, leather must be neutralized properly followed by thorough washing.

For Sheep Nappa	: 2 – 4 % on the shaved weight
For Sheep Cabretta	: 3 – 6 % on the shaved weight
For Resin Goat	: 2 – 5 % on the shaved weight
For Cow calf upper	: 3 – 5 % on the shaved weight
For Cow lining	: 3 – 6 % on the shaved weight
For Cow softy	: 4 – 6 % on the shaved weight
Cow Upper	: 4 – 6 % on the shaved weight
Buff Upper	: 3 – 6 % on the shaved weight
Buff – Upholstery	: 3 – 5 % on the shaved weight
Buff Burnishable Upper	: 2 – 5 % on the shaved weight

## DEBIND D–150

*Technical Information*

***A Super Soft Acrylic Binder With High Coverage***

**Appearance** : Milky white liquid

**Total Solids** : 35 ± 2%

**pH** : 7.5 to 8.5

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<b>Specific gravity</b>	:	1.10
<b>Viscosity</b>	:	Upto 10 ps.
<b>Ionic charge</b>	:	Anionic
<b>Particle size</b>	:	Medium
<b>Stability</b>	:	Excellent
<b>Compatibility with other materials</b>	:	Excellent
<b>Free monomers</b>	:	<0.5%
<b>Film properties</b>	:	Clear transparent, soft, stretchy

**Properties :**

1. DEBIND D-150 is a super soft acrylic binder designed specially for base coat with high coverage
2. Leathers finished with this binder shows low surface tack, excellent plate release, good print retention
3. Base coats formulated with this binder are having very good resistance to “cut through” when embossed at high temperature and pressure.

**Application :**

- |                            |   |                                 |
|----------------------------|---|---------------------------------|
| 1) Split finishing         | : | 350 – 500 gms / litre of season |
| 2) Corrected grain leather | : | 100 – 150 gms / litre of season |

## **DEBIND D-300**

*Technical Information*

***A Very Fine Particle Size Acrylic Binder Having Good Penetration Properties***

<b>Appearance</b>	:	Translucent Liquid.
<b>Colloidal Charge</b>	:	Anionic
<b>Total Solids</b>	:	35 ± 2%
<b>Particle Size</b>	:	Very fine, uniform.
<b>pH</b>	:	5 to 6

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<b>Specific Gravity</b>	:	1.05
<b>Film Hardness</b>	:	Soft
<b>Mechanical Stability</b>	:	Good

### Properties

1. DEBIND D-300 is a very fine uniform particle size acrylic resin dispersion having good penetration properties.
2. DEBIND D-300 can be used in the formulation of base coats and colour coats and in surface impregnation of full and corrected grain leathers.

### Characteristics

Unique polymerization technology of DEBIND D-300 enable all of the following features to be combined.

- Very fine uniform particle size distribution.
- Soft, gentle handle for today's natural looking leathers.
- Outstanding adhesion promotional properties on full grain and sheep skin leathers.
- Excellent cold crack resistance.
- Good penetration properties on all types of leathers.
- In impregnation DEBIND D-300 produces less firming and less surface discoloration than conventional acrylic resins.

### Compatibility of Aqueous Finishers

DEBIND D-300 is compatible with the full range of other binder and auxiliaries. It should be bended with harder / filling binders for base coats.

### Application

A. The adhesion promotion and soft fine particle size characteristics of a DEBIND D-300, facilitate its use as a soft component binder in the formulation of base coats and colour coats for today's natural looking leathers such as garment, sheep skin and bovine leather. Finish coats based on DEBIND D-300 do not crack when bent, have excellent flexibility, high, elongation and do not increase the temper of leather. The excellent cold crack resistance of DEBIND D-300 is a plus point for finish formulated with it. DEBIND D-300 can be formulated with harder film characteristics binders depending on the characteristics desired.

B. Impregnation : The unique soft, uniform, fine particle size characteristics of DEBIND D-300 enables its use as an impregnation binder in the manufacture of very mellow corrected grain leathers such as softee shoes leathers.

C. By using DEBIND D-300, less firming and less surface discoloration are achieved. Correctly formulated DEBIND D-300 clears the surface so well that rebuffing is not needed, to produce a surface ready for finishing.

## DEBIND D-100

*Technical Information*

### ***An Aqueous Dispersion based Binder for modern finishes***

<b>Type</b>	:	Aqueous Acrylic Dispersion, Anionic.
<b>Solids</b>	:	40% $\pm$ 2%
<b>pH</b>	:	7 to 8.5

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<b>Specific Gravity</b>	:	1.06
<b>Alcohol Tolerance</b>	:	Excellent – no thickening agent
<b>Mechanical Stability</b>	:	Excellent
<b>Storage</b>	:	Stable-must be protected from freezing.

**Properties :**

1. DEBIND D-100 is a general purpose aqueous dispersion of acrylic resin.
2. For many years, this product has been accepted as one of the most suitable as a binder wherever modern finishing techniques are employed.
3. The excellent mechanical stability of DEBIND D-100 makes it eminently suitable as a binder wherever modern finishing techniques are employed.
4. DEBIND D-100, in common with most of the other members of the range of binders, is freely miscible with all the materials generally used in the finishing of leather.
5. For intermediate and final pigment coats DEBIND D-100 can be used with a variety of harder materials.

## **DECIFEEL SHINE**

*Technical Information*

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### **GLOW WITH PROTECTION**

**DECIFEEL SHINE** - Unique Polymer Specialty formulations penetrates & beautify all kinds of Leather surfaces with top finishes. DECIFEEL SHINE helps protect surfaces from fading and cracking while bringing out colour, restoring luster and shine. Protects against abrasion out static electricity to reduce

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dirt attraction. If less shine desired, lightly buff with damp cloth, **DECIFEEL SHINE** is having very good penetration power, will increase the softness of leather with top finish and water repellency.

**DIRECTIONS - FOR BEST RESULTS :**

- 1) Thoroughly clean surface & make it dust free before application.
- 2) Spray **DECIFEEL SHINE** & spread evenly with cloth or sponge.
- 3) Spread evenly, allow to penetrate and chemically bind for a few minutes. then - coat application provides best results. Apply as needed to maintain Shine and protective coating.

## **DECIFEEL SILK**

*Technical Information*

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***Silicone based Non-Ionic emulsions***

**Appearance** : Milky White emulsions

**Character** : Non-Ionic

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<b>Fastness to light</b>	:	EXCELLENT
<b>Colour of film</b>	:	Colourless, transparent
<b>pH of emulsion</b>	:	6.5 to 8.5
<b>Compatibility</b>	:	Very good with non-ionic and anionic agents And Electrolytes.
<b>Stability</b>	:	To transparent - Very Good. On rack for 6 month - Good To pH between 5.5 - 8.5 - Good. To Hard Water - Good

### **Application**

It has a good conditioning effect to the topcoat producing a soft film without imparting gloss. The finish films thus formed become more water repellent, stain resistant and light to touch. The use of **DECIFEEL SILK** also makes leathers more resistant to adhesive used while making leather goods.

## **DECIWET HA**

*Technical Information*

### ***Amphoteric dispersing agent with softening properties in highly concentrated form***

Appearance	:	Yellowish Brown
Character	:	Alkaline
Solubility	:	Soluble in water in all properties
pH of 10% solution	:	9 to 11
Viscosity	:	Low but increases on dilution and then decreases on further dilution.

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**Properties :**

1. It is a very powerful dispersing agent, detergent and grease emulsifier with a softening action.
2. Being amphoteric in a nature its action is evident both in alkaline and acidic range.
3. It is therefore eminently suitable as a dispersing agent for chrome and for natural greases in skin giving a uniform distribution of chrome in tanning and retaining baths.
4. It is very useful in the pickle bath, combining the advantage of grease dispersing chrome distribution and softening at one stroke.
5. The leather look cleaner due to **DECIWET HA** used in the pickle or during chrome tanning, due to its detergency and grease dispersing property.
6. Due to cleaner leather, the dyeing is more uniform, clean and rich.
7. This auxiliary should not be used in excess because the excess quantity creates foaming in the subsequent neutralizing stage.

**Application :**Pickling

Use 0.5 to 0.75% of **DECIWET HA** on pelt weights along with the salt, run for 20 Mts. The acid additions are made in the same bath as required. Mineral tanning follows as usual, and further use of **DECIWET HA** in chrome is not necessary. Chrome Tanning 0.1% to 0.2% **DECIWET HA** along with 1 to 4% Emulsifier on Pelt weight are mixed well with 20% water and added along with the first addition of chrome in the main tanning. The quantities depend on the degree of softness required e.g. less for upper and more for garment and gloving leathers.

## DESOFIT C-100

*Technical Information*

**A Powerful Agent that helps to soften water and enhance product performance**

<b>Physical Form</b>	: Powder
<b>Colour</b>	: Off White
<b>pH of 1% Solution</b>	: 8 to 10
<b>Cholston Value</b>	: Around 250

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**Properties :**

1. Powerful organic sequestering agents to get the best result in Fat liquoring & water softening.
2. Combine with almost all polyvalent metallic ions viz. Ca, Mg, Fat, Heavy metal ions to form stable soluble complexes and thus inhibiting their usual chemical reactions.
3. DESOFT C-100 are stable on prolonged heating, over wide temperature range, pH, concentration, acid (10% H<sub>2</sub>SO<sub>4</sub>) and alkalis (15% NaOH).
4. Valuable property of DESOFT C-100: forming stable complexes with alkaline earth and heavy metals e.g. once DESOFT C-100 forms Ca complex, Ca does not precipitate with Phosphate, Soap, Carbonate, hydroxide etc., which will ordinarily precipitate with few ppm of calcium.

**APPLICATIONS**

DESOFT C-100 giving excellent water softening by cutting the salt and the metal like Ca, Mg, Fe, Cu ions Shades spotting, colour charges etc.

## DECIWET EO

*Technical Information*

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***Non-ionic economical detergent wetting agent and dispersant***

**Appearance** : Yellowish liquid.

**Character** : Non-ionic, foaming

**pH** : 6.5 to 8.5

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**Colour** : Pale yellow to colourless

**Stability** : To pH above 3.0 - EXCELLENT  
To strong acids and alkalis FAIR

**Properties :**

1. **DECIWET EO** is suitable for stripping of vegetable tanned and E.I. leathers along with mild alkalis to give cleaner stripped leathers free from natural greases, oils etc.
2. The best method is to run the skins with 1 to 1.5% **DECIWET EO** on dry weight of leathers for 1 hour and leave over night in the bath.
3. Next day, additions of alkalis for stripping can proceed followed by through washing, Chrome leathers stores for along time in wet condition can be pre-washed with 0.2 to 0.4% of **DECIWET EO** on shaved weight to ensure uniformity.
4. Use of 0.2% of **DECIWET EO** on wet salted weight, in soak wash in the drum gives cleaner and uniformly soaked hides and skins.

## DECIWET N

*Technical Information*

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***Anionic, economical wetting agent and detergent***

**Appearance** : Yellowish liquid

**Character** : Anionic, foaming

**Colour** : Pale yellow

**Stability** : To, pH between 9 & 10 – Good

To, Hard Water - Good

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**Compatibility** : Soluble in water

**pH** : 8 to 9

**Properties :**

In water media, it has an excellent detergent and washing & wetting action. It gives foaming liquors and gives best detergency between pH 8 to 9. It is therefore recommended as general purpose detergent and wetting agent. Its action is more pronounced in hot baths than cold.

**Application**

It is a general-purpose detergent & is most suitable for stripping of vegetable tanned E.1 leathers. About 1 to 1.5% on the dry weight of leathers, along with mild alkalies, gives, clean leathers, stripping off most of the soluble tans, oils & greases, and prepare them for receiving a fresh retannage.

The best method is to run the rinsed leathers with the detergent for 1 to 1 ½ hour and keep overnight in the bath, and next day proceed with the stripping with additional alkalies as required followed by through washing.

Blue chrome leathers stored in wet condition for a long time can be pre-washed with 0.2 to 0.6% of **DECIWET N** on shaved weight in warm water followed by washing and neutralizing, to get uniform results due to uniformly wetted leathers.

It can be used in the rewetting of mineral tanned crust leathers.

## DECIWET DOS

*Technical Information*

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***Anionic wetting agent and detergent***

**Appearance** : Viscous glassy material with a yellow tinch.

**Character** : Anionic

**pH** : 6.5 to 7.5

**Fastness to light** : Excellent

**Solubility** : Soluble in hot water. Solubility 60 gms/ltr @ 70°C,  
Solubility 15 gms/ltr @ 29°C. Soluble in most polar

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and nonpolar solvents.

**Colour** : Transparent yellow.

**Stability** : To, pH between 5 to 10 - EXCELLENT.  
To, strong acids and alkalies-Hydrolysis takes place  
in presence of strong acids & alkalies. To Hard water  
GOOD, To Electrolytes POOR, To strong for 6 month  
GOOD, To Transport GOOD.

**Properties :**

It is a highly concentrated and powerful, meeting agent and detergent giving an almost instant wetting action on hides, skins and leather in the pH range indicated.

**Application :**

Due to its powerful wetting properties, it is recommended for the wetting backing of mineral and crust leathers. About 0.2 - 0.5% of DECIWET - DOS on the weight gives excellent results without the presence of liquor ammonia. The best procedure is to run the rinsed skins in 500% float @ 60°C with DECIWET - DOS for 2 to 3 hrs. And leave the skin overnight in the bath. The skin are washed next day and are ready for dyeing.

It is also useful in the stripping of vegetable tanned leathers before mineral tanning. About 0.2% of DECIWET-DOS on the dry weight of skin is recommended. The best way is to run the rinsed leathers with the detergent in the drum for 1 hour and leave overnight in the bath. Next day rinse and proceed with stripping with additional alkalies as required, followed by through washing.

## DECIVEEN XI

*Technical Information*

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***Non-ionic water-soluble polyol used as a humectants in place of glycerin.***

**Properties**

**Appearance** : Yellowish clear liquid.

**Character** : Non-Ionic

**Fastness to light** : EXCELLENT

**Colour** : Pale yellow to colourless

**pH** : 4 to 7

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**Solubility in water** : Freely soluble

**Caution** : The product is inflammable and must be kept away from flame.

**Application :**

**DECIVEEN - XI** is used as humectants for crust leathers meant for rewetting and dyeing. After the normal preliminary retanning and fat liquoring etc. the bath is completely drained 2% of

**DECIVEEN - XI** is taken on sammed, shaved weight is then added to the moving drum. The leathers are run

for 15 minutes without float, taken out and piled. They are then processed further as usual.

The amount required depends on type of leather & the fat liquoring effect desired.

It is recommended to use alone or together with other fat liquoring agent for shoe upper, lining, etc.

This can also be suitably used for leathers like CG Uppers, Smooth finished uppers etc.

This product is specially designed for shoe upper & linings. It can be used 2-4% with combination to other Fat liquors.

## **DECIVEEN SUPER**

*Technical Information*

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### ***Super Specialty solvent for Lacquer mixes***

**Appearance** : Yellowish Liquid

**Acidity** : 0.01% max.

**Odour** : Mild

**Solubility** : Completely Soluble in water

**B. P.** : 122°C - 126°C

**Evaporation No.** : 34.5

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**Flash Point** : 10.6°F

**Properties :**

1. DECIVEEN SUPER is a solvent having medium to very low evaporation rate.
2. DECIVEEN SUPER is fully soluble in water & so that small additions in water dilutable lacquer emulsions will improve the fineness of the dispersion & make it more stable.
3. Decrease the viscosity of lacquer emulsion & improve flow properties & gloss.

**Application :**

1. As stain remover
2. Defective lacquered leathers can be corrected by a simple spray of DECIVEEN SUPER on top
3. It gives deeper penetration, better adhesion & reduce thickness
4. For improving the gloss
5. Excellent Moisture Retainer for Solvent base fat liquors

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**Chemical Composition** : It is a solution of TCMTB Solvent & emulsifier

**Appearance** : Dark amber coloured transparent liquid with a faint odour

**pH as such** : 4 to 6

**Ionicity** : Non-Ionic

**Properties** :

1. DE-CIDE ABU-30 is a very powerful, universal, preservative
2. DE-CIDE ABU-30 exhibits excellent antifungal against a range of spoilage organisms associated with the leather industry.

**Applications** :

DE-CIDE ABU-30 is used for preservation & protection of

1. Pickled hides & skins
2. Chrome Tanned leather
3. Vegetable Tanned leather
4. Finished leather.

**Use Dilutions** : DE-CIDE ABU-30 should be applied as dispersions in water (one part of DE-CIDE ABU-30 to 9 parts of water). Dispersions are prepared by the addition of DE-CIDE ABU-30 to water with good stirring dispersion of DE-CIDE ABU-30 in water remain stable for a limited period 10-15 days. It is suggested that stock solution are stirred before taking out requisite quantities for applications. Dosages mentioned below are stock solution of 10% dispersion of DE-CIDE ABU-30.

**Pickled Stock** :- For preservation of pickled stock addition of 0.25% to 0.5% of the diluted solution to the pickle bath is recommended.

**Chrome Tanning** : For long preservation of Chrome tanned leathers addition between 0.125% : 0.5% is tanned bath recommended.

**Vegetable Tanning** : 0.125 - 0.4 % after the final wash

**Finished Leather** : 1 - 2 gram of emulsion per litre of the finished formulation is recommended.

**Safety** : Skin & Clothes contact. After skin exposure, wash properly and thoroughly with abrasive soap & cool water & finally with glycerin. In case of persistent irritation of the skin, obtain medical advice.

**Eye Contact** : If the product gets into the eyes, flood eyes immediately & thoroughly with cool water for 15 -30 min. See a physician if any irritation persists.

**Oral Ingestion** : If the product is swallowed, call a physician immediately.

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