

## LAVOTAN DSU D

<b>Character</b>	APEO-free washing, emulsifying and cleaning agent for all types of fibres
<b>Chemical character</b>	Combination of special surfactants
<b>Appearance</b>	Colourless, clear liquid
<b>Ionic character</b>	Non-ionic/anionic
<b>pH-value</b>	5.7 – 9.3
<b>Specific weight at 20 °C</b>	~ 1.0
<b>Stabilities</b>	<p>LAVOTAN DSU D is stable to the usual concentrations of acids, alkalis and metallic salts as well as to oxidizing and reducing agents and to agents causing water hardness.</p> <p>The product is sensitive to frost to a limited extent; changes occurring at low temperatures are reversible on warming and after thorough stirring.</p>

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### Properties

LAVOTAN DSU D has a high washing and cleaning performance combined with a good rinsing behaviour and excellent wetting properties. It is therefore highly suitable for washing and cleaning natural and synthetic fibres and their blends.

### Application technique

#### Diluting instructions

LAVOTAN DSU D can be diluted with water in every ratio.

#### Fields of application

As LAVOTAN DSU D very well emulsifies fats, waxes and loom or knitting oils, it is excellently suitable for washing and bleaching processes. LAVOTAN DSU D does not impair the activities of bacterial preparations and pancreas amylases and can thus be added to the desize liquors as wetting agent and for emulsifying size fats.

## Application proposal

### Washing wool

LAVOTAN DSU D can be applied for washing wool in all processing stages. The application amounts are normally

0.5 - 2.0 % LAVOTAN DSU D  
1.0 - 2.0 % Soda calc. or ammonia

20 - 45 min, 30 - 45 °C  
Rinse warm and cold

### Washing synthetic knits and wovens

The application amounts depend on the degree of contamination and on the liquor ratio. Wash as follows:

1.0 - 3.0 g/l LAVOTAN DSU D  
1.0 g/l HEPTOL NWS  
1.0 - 2.0 g/l Soda calc.

20 min at 60 - 98 °C  
Rinse thoroughly warm and cold

### Washing cotton and cotton blends

The application amounts depend on the type of preparation and the degree of contamination. Generally, 1.0 - 2.0 % o. w. f. are sufficient.

Standard recipe:

1.0 - 4.0 % LAVOTAN DSU D  
1.0 g/l HEPTOL NWS  
2.0 g/l Soda calc.

20 min at 60 - 98 °C  
Rinse warm and cold

LAVOTAN DSU D is also suitable for continuous washing processes. Application amounts:

1.0 - 2.0 % LAVOTAN DSU D o. w. f.

Additional dosages must be added according to the machine type.

### Washing regenerated fibres

1.0 - 2.0 % LAVOTAN DSU D  
1.0 g/l HEPTOL NWS  
1.0 - 2.0 g/l Soda calc.

20 min at 60 - 80 °C  
Rinse warm and cold afterwards

Enzymatic and oxidative desizing

LAVOTAN DSU D is no enzyme toxicant and can be added to the desizing liquors as wetting agent or to emulsify the size fats.

Impregnation recipe:

or            1.0 - 3.0 g/l BEISOL LZV            (at 60 - 70 °C pad temperature)  
              1.0 - 3.0 g/l BEISOL HTS        (at 70 - 90 °C pad temperature)  
              0.5 g/l HEPTOL ESW

2.0 - 3.0 g/l LAVOTAN DSU D

Dwell times: 2 - 24 hours

Oxidative desizing

2.0 g/l HEPTOL KEB

20.0 g/l NaOH 100 %

5.0 - 10.0 g/l LAVOTAN DSU D

3.0 - 8.0 g/l Persulphate

Impregnation temperature: 20 - 40 °C

Dwell 2 - 6 hours

Wash out

Washing out water-soluble sizes based on acrylate, polyester, polyvinyl acetate and polyvinyl alcohol

Pad with:

5.0 - 10.0 g/l LAVOTAN DSU D

2.0 g/l HEPTOL NWS

x g/l Soda calc.

Pad, dwell 2 - 5 hours

Wash out at 80 - 98 °C

The amount of soda is added according to the type of size. Acrylate sizes require a comparatively high alkalinity, whereas PES sizes should be washed out between a pH of 8.0 and 9.0 and the polyvinyl acetate and polyvinyl alcohol sizes at a pH of 7.0.

Application in bleaching processes

Peroxide cold bleach on Co-grey fabric

3.0 - 8.0 g/l CONTAVAN TIG

5.0 g/l LAVOTAN DSU D

0 - 10.0 ml/l Silicate of soda

15.0 - 40.0 g/l NaOH 100 %

20.0 - 60.0 ml/l Peroxide 35 %

0 - 5.0 g/l Persulphate

Liquor pick-up: 80 - 110 %  
Impregnation temp.: 20 - 30 °C  
Bleaching duration: 16 hours at room temperature

Pad-steam bleach (combi steamer) on pretreated Co-fabric

(e.g. desized, demineralized, boiled)

3.0 - 5.0 g/l CONTAVAN TIG  
5.0 g/l LAVOTAN DSU D  
0 - 10.0 ml/l Silicate of soda  
5.0 - 20.0 g/l NaOH 100 %  
20.0 - 60.0 ml/l Peroxide 35 %

Liquor pick-up: up to a maximum pick-up capacity of the goods  
Impregnation temp.: 20 - 30 °C  
Bleaching duration: 10 - 25 min at 103 °C saturated steam

Pad-Roll bleach on pretreated Co-goods

(e.g. desized, demineralized, boiled)

3.0 - 5.0 g/l CONTAVAN TIG  
3.0 g/l LAVOTAN DSU D  
5.0 - 10.0 ml/l Silicate of soda  
3.0 - 5.0 g/l NaOH 100 %  
20.0 - 30.0 ml/l Peroxide 35 %

Bleaching temp.: 98 °C  
Bleaching duration: 60 - 120 min

**Güvenlik yönetmeliđi ile ilgili bilgiler bu ürünün güvenlik veri belgelerinden bulunabilir.**

**Ürün ve ürüne ait teknik dökümanları yenileme hakkımız saklı tutulmaktadır**

**Uygulama teknikleri ile ilgili olarak daha fazla bilgi ve tavsiye için her zaman teknik servis vermekteyiz.**

Yazılı, sözlü veya yapılan denemelerle verdiğimiz teknik önerilerin ve tavsiyelerin doğru olduđu kabul edilmektedir.

Kontrolümüz dışında yapılan işlemler ve uygulamalar ile ilgili sorumluluk kabul etmemekteyiz.

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