

LAVOTAN DSU A

Character	APEO-free washing, emulsifying, and cleaning agent for all types of fibres
Chemical character	Combination of special surfactants
Appearance	Colourless-yellowish, clear liquid
Ionic character	Non-ionic/anionic
pH-value	6.0 – 9.0
Specific weight at 20 °C	~ 0.99
Stabilities	<p>LAVOTAN DSU A 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>
Storage	The product will hold for at least 12 months if stored properly in original containers.

Properties

LAVOTAN DSU A has a high washing and cleaning performance combined with 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 A can be diluted with water in any ratio.

Fields of application

As LAVOTAN DSU A very well emulsifies fats, waxes and loom or knitting oils, it is excellently suitable for washing and bleaching processes. LAVOTAN DSU A 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 A can be applied for washing wool in all processing stages. The application amounts are normally

0.5 - 2.0 % LAVOTAN DSU A
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 A
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 A
1.0 g/l HEPTOL NWS
2.0 g/l Soda calc.

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

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

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

Additional dosages must be added according to the machine type.

Washing regenerated fibres

1.0 - 2.0 % LAVOTAN DSU A
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 A 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 A

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 A
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 A
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 A
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 A
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 A
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

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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