

TECHNICAL BULLETIN

Textile Processing Compound



Let You LEAD The Process

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Nestogen 5 Star

A Powerful Wetting
agent cum detergent

Nestogen 5 Star is high performance wetting agent cum detergent designed for processes where exceptionally high wetting and detergency is required like open width continuous bleaching.

Features	<ul style="list-style-type: none">➤ High Efficiency in Emulsification of oils and waxes➤ Good detergency for cotton and also for rayon and other synthetic-fiber textiles➤ Effective wetting properties➤ Excellent rinsability➤ Good dispersing properties➤ Outstanding stability to alkali and caustic➤ Synergism with sequesterants in the control of iron and other metal ions.➤ Rust inhibition
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Type	Cryptoanionic
Constitution	Blend of Surfactant
Appearance	Clear Yellow liquid
Solubility	Easily soluble in cold water.
Compatibility	Stable to alkalies, acids, electrolytes, hard water and compatible with auxiliaries used in bleach bath.
Storage	Stable under normal conditions.
Application	<p>In the continuous processing the dwell time of fabric in the bath is very short and hence high wetting to ensure uniform and fast pick up of bath liquor.</p> <p>Nestogen 5 Star a specially designed wetting agent which ensures fast wetting of the fabric in continuous preparation and yield good absorbency and whiteness.</p>

The product appearance varies from batch to batch. The colour & viscosity may vary from batch to batch and its intensity is not an indication of product strength.

NONWARRANTY: The suggestions and data in this bulletin are based on information we believe to be reliable. They are offered in good faith but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions on an experimental basis before adopting them on a commercial scale.

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1. CONTINUOUS PROCESS

1.1 Pad-steam (Roller-bed steamer, J-Box and U-Box)

	Desize	Scouring	Bleaching
Nestogen 5 Star	2 g/l	2-4 g/l	3-4 g/l
Hydrogen Peroxide (50%)	3-4 ml/l	-	20-40 ml/l
Caustic soda flake	50 g/l	50 g/l	4-8 g/l
Nestogen LV4 Conc.	5 g/l	5 g/l	1-2 g/l
Nascent - O ₂	-	-	6-8 g/l

Pad at 30°C and steam at 100°C for 20-30 mins. followed by washing (hot-warm-cold)

1.2 Combined Scour-Bleach

Nestogen 5 Star	2-4 g/l
Nascent - O ₂	6-8 g/l
Nestogen LV4 Conc.	1-2 g/l
Caustic Soda flakes	10-20 g/l
Hydrogen Peroxide (50%)	40-60 ml/l

Pick up : 120-140%

Steam at 100°C for 10-20 mins followed by wash-off (95°C/95°C/80°C/50-70°C)

2. DISCONTINUOUS PROCESS (BATCH OPERATION)

2.1 Pad-Batch

	Oxidative Desize	Scouring
Nestogen 5 Star	3-5 g/kg	3-5 g/l
Nestogen LV4 Conc.	1-2 g/kg	3-5 g/l
Hydrogen Peroxide	12-17 ml/kg	-
Caustic Soda	8-10 g/kg	40-60 g/l

Pick up : 100%

Desize: Pad-batch at 90°C for 1 hour

Scouring : Pad at 50-90°C and batch at 90°C for 2-3 hours.

**Storage
Packing**

Stable under normal conditions.
50 Kg. Plastic Carboy

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