

TECHNICAL BULLETIN

Textile Processing Compound



Let You LEAD The Process

E-mail : contact@nestorindustries.com

Nestoquest - SD

Sequestrant and dispersing agent

Nestoquest - SD is a most effective sequestering and dispersing agent for heavy metals like calcium, magnesium and iron.

Features

- Most effective in preventing scale deposition or adsorption onto the fibres and equipments from calcium and magnesium salts.
- Effective oligomer-dispersing agent.
- **Nestoquest - SD** is effective in dispersing CMC and acrylic sizing agents.
- Minimises problems like poorer touch, chafe mark and uneven dyeing in Hydrogen Peroxide bleaching system with silicate stabilizers.
- Minimises inside out shade variation on package dyeing of Direct, reactive, vat-dispersing dyes, metal-complex dyes, caused due to water hardness.
- With its superior dispersing effect with pigment and fluorescent dyes, **Nestoquest - SD** improves the dispersions of the pigments and soaping of the insoluble indigo dye.
- Prevents scale formation in after soaping and mercerisation.

Type	Weakly Anionic
Appearance	Transparent liquid
Solubility	Easily soluble in cold water.
Compatibility	Stable to alkalis, acids, electrolytes, hard water and compatible with auxiliaries used in bleach bath.
Storage	Stable under normal conditions.
Application	Due to non-availability of high-quality water, textile industry is forced to shift operation in areas where only hard water is available. High levels of metal salts both in processing water as well as natural fibres, cause insoluble scum in the scouring, bleaching and dyeing stages, and this finally produces several problems such as contamination in the equipment, poor whiteness and colour variance between the inner and outer fibres in cheese dyeing and colour stripe formation.

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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Nestoquest - SD is the most effective aid in preventing such problems and thus contributes to process improvement.

1. CONTINUOUS PROCESS

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

	Desize	Scouring	Bleaching
Nestoscour - LV4	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
Nestoquest - SD	5 g/l	5 g/l	1-2 g/l
Nestostab – O2	-	-	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 - RE	2-4 g/l
Nestostab – O2	6-8 g/l
Nestoquest - SD	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 Enzymatic Desize (Pad-batch)

Enzyme	--- g/l
Nestoquest - SD	2-4 g/l

Pick up : 100%

Impregnation temperature : 60°C

Batch at Room temperature for 8 hours

2.2 Pad-Batch

	Oxidative Desize	Scouring
Nestogen - RE	3-5 g/kg	3-5 g/l
Nestoquest - SD	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.

2.3 Boil Off (JET)

Nestogen - RE	0.3-0.5%
Nestoscour - LV4	0.5-0.7%
Nestoquest - SD	1-2%
NaOH (100%)	1-2%

M:L = 1:10; 90°C/30 mins

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2.4 Scour Bleach - Knits and coloured goods (JET)

Nestogen - RE	0.3-0.5%
Nestoquest - SD	0.5-1%
Nestostab – O2	0.4-0.7%
NaOH (100%)	1-2%
Hydrogen Peroxide (35%)	3-5%

M:L = 1:10:

95°C/40 mins; drain at 70°C - hot wash - cold wash

Product PK-1	1%
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70°C/20mins followed by cold wash

2.5 Reactive Soaping (Washing off) for woven

Nestoquest - SD	0.4-0.5% owf
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Treat @85-90 °C for 30 – 40 mins

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