

Crosfield Textiles Chemicals (I) Pvt. Ltd

NATURESIZE TT

Single shot sizing compound for staple fibre yarns composed of cellulosic fibers and their blends. Particularly suitable for weaving coarser and medium count warp based on 100% cotton, open-end and ring-spun yarns.

CHARACTERISTICS	BENEFITS
Hit-technology modified starch	Provide good cohesive with cotton fibres and all kinds of cellulose fibers..
Improved film property	Reduces the mass of hairiness in splitting and protects the film of yarn complete
Versatile film Performance	Its film performs with higher strength, smooth abrasion and good elongation.
Solubility	Completely dispersible in water and easily be desized
Physical condition	The physical condition in solid is optimal for storage and transportation

PROPERTIES

Nature

Compound based on synthetic modified organic polymers with in-built softener.

Physical form

White Powder.

Storage

NATURESIZE TT can be kept in the original sealed packing at temperatures between – 20 °C and 40 °C for at least 12 months. Partly used packing should be kept tightly closed and used up as soon as possible.

Active Content

Approx. 90%

Concentration

Refractometer value (in Brix) x 0.9 (20 °C)

pH (at 25 °C)

Approx. 6.0 – 8.0 (10% aqueous solution in distilled water)

Viscosity (at 85 °C)

10%: approx. 21-25 secs (ford cup B4)

Solubility

NATURESIZE TT dissolves in warm water to form a slightly yellowish, opaque to turbid solution. To ensure consistent sizing results, it is advisable to boil the solution (> 90 °C) until it is homogeneous. With low-speed stirrers, NATURESIZE TT should be strewed slowly into the water to avoid the formation of lumps.

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COD	Approx. 85.1 ppm (of 0.1 gm/lit solution)
BOD	Approx. 4.0 ppm (of 1 gm/lit solution)
Ecology	NATURESIZE TT is > 80% bio eliminable
Compatibility	NATURESIZE TT can be mixed with the all the usual products for sizing staple-fiber yarns. However, preliminary compatibility tests should be carried out with specific products.
Action	Warps that have been correctly sized with NATURESIZE TT can be woven with high efficiency on all types of looms suitable for spun yarns.

APPLICATION

Yarn sized with NATURESIZE TT has an excellent sizing effect and weaving performance and little dust formation.

Sizing recipe with NATURESIZE TT in adequate quantity will normally not require the external addition of sizing softener or binder in Size liquor formulation but pre-trials are necessary to finalise the formulation since it depends on many factors like yarn count and hairiness, type and speed of the loom, etc. The concentration of the size liquor depends on the yarn count, warp setting, yarn quality, machine conditions and weaving requirements.

Desizing –

Enzymatic or oxidative Desizing method.

NATURESIZE TT can be removed by enzymatic desizing with alpha amylases or oxidative desizing with hydrogen peroxide.

Typical recipe for desizing

Pad batch enzymatic Desizing -

0.3 - 1 ml/kg Biobact Conc.
3 - 5 ml/kg Crosprep WBEN
0 - 2 ml/kg Crosquest H
Liquor pick up : 100%
Impregnation temperature: 30 – 90°C
Batching time: 4 – 24 hr
Hot wash off

Discontinuous Enzymatic Desizing -

0.1- 0.8 ml/kg. Biobact Conc.
0.5 – 2.0 ml/kg Crosprep WBEN or Croscur HPJS
Liquor ratio: 4 : 1 – 20 : 1
30 –60 min at 60 – 90°C
Hot wash off.

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PACKAGE AND STORAGE

Net weight is 25 kilos per bag whose envelop is made of multilayer paper coated with polyethylene. Storage in a condition of low temperature and water proofed is preferred.

Safety

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals.

Note

The data contained in this communication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. Responsibility for compliance with the requirements of the downstream textile market rests with the textile processor

ATTENTION

The information given above is in line with our present state of knowledge and experience and is without any guarantee. Users must thoroughly test any application before any commercialization. We are not liable for damages due to improper application of our products.