



# Sarex Chemicals

(A Divn. Of Saraf Chemicals Pvt. Ltd.)

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## PRODUCT LITERATURE

### NYLOFIX-993

#### Product Information

Nylofix-993 is a low dusting powder dyefixing agent for acid and metal complex dyed / printed polyamide and their blends. It is readily soluble in water. After treatment with Nylofix-993 improves wet fastness properties. It is also reserving agent for dyeing of polyamide fibres with acid and metal complex dyes.

#### Key Features & Benefits

##### Key Features

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Fibre Affinity

Improves wet fastness properties

It equalise exhaustion of dye for wool/nylon blend

Has no effect on shade or light fastness of dyeings

Low foaming

##### Benefits

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Strong dye fixing agent for acid & metal complex dyes and reserving agent for Polyamide / Cellulosic blends dyeing

Prevents cross-staining during washing

Solid shades obtained

Recipe adjustment not require

Can be used on soft flow machines

#### General Characteristics

Physical appearance : Light brown/brown buff powder

Ionic Nature : Anionic

pH of 1% solution : 8 +/- 1

Miscibility : Soluble in water

Compatibility : Compatible with anionic and nonionic products

Stability : Stable to dilute acids and dilute alkalies

#### Application

I. Exhaust application to improve wet fastness of Polyamide

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Nylofix-993 : 0.5-1.5% (depending on depth of shade)  
Bath pH : 4.0-4.5 (with Acetic acid)  
Bath Temp. : 70-80 deg.C  
Time : 15-20 min.

#### II. Exhaust application for Wool / Nylon blend for solid shade

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Nylofix-993 is added to the bath containing approximately 1% acetic acid and other auxillaries. Treatment to be carried out for 20 min at 50-60 deg.C before adding dye and then dyeing to be carried out. The concentration of Nylofix-993 depends on type of dye and depth of shade, dyeing method and fibre blends. Generally, more quantity of Nylofix-993 is required for high dye affinity and pale shades and less quantity is required for darker shades.

#### III. Exhaust application for Nylon / Cellulose blend for solid shade

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Nylofix-993 is added to the dyebath to prevent staining of nylon fibre with direct dyes depending on the depth of shade.

#### Note:

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1. The handle of the fabrics may change slightly (becoming firmer, fuller), depending on the amount of Nylofix-993 used, the fabric construction, and the temperature during drying or post-setting.
2. The optimum concentration of Nylofix-993 can vary depending on type of polyamide. Generally, higher concentration are required for Nylon 6 than for Nylon 66. It is advisable to carry out the after treatment at 70 deg.C

The effects obtained by after treating with Nylofix-993 are stable to dry heat at the usual setting temperatures, but can be impaired by intense pressure steaming. Increasing the amount of Nylofix-993 will often improve the stability of the dyefixation to steaming. Polyamide material treated with Nylofix-993 is difficult to re-dye or over-dye. Nylofix-993 should therefore be stripped first before redyeing.



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Removal of Nylofix-993 from substrate

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2 g/l ammonia 24%  
2-3 g/l detergent  
Run for 10-20 minutes at 80-90 deg.C followed by rinsing.

#### Instructions For Dilution

Procedure to prepare 35% Nylofix-993

- Take 65 parts of DM water at room temperature or 60-80 deg.C
- To this, gradually add 35 parts of Nylofix-993 with constant stirring.
- Continue stirring for 30 min to obtain homogeneous product.

Note:

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- Appearance of solution may change from yellow to brown on storage
  - If solution to be stored at freezing temperature than 5-10% diethylene glycol is recommended

Preservation:

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It is recommended to add 0.1% Bronopol (2-Bromo,2-nitropropane, 1,3-diol) or Methyl Paraben (methyl para hydroxy benzoate) as an antimicrobial agent to avoid fungal / microbial growth.

#### Precautions

Storage : Store in cool, ventilated shed away from heat and direct sunlight.Storage temperature should not exceed 35 deg C.Close lids firmly to avoid contact with air and moisture.

Shelf Life : 8 months from the date of manufacturing, if stored under controlled conditions.

[The above information is given in good faith and is without warranty]  
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