TECHNICAL BULLETIN
Textile Processing Compound

Let You LEAD The Process

E-mail : contact@nestorindustries.com

Nestol - PYP

Anti-Phenolic
Yellowing Agent

Nestol - PYP is a high performance composition designed for treating fabrics & garments from yellowing due to storage conditions.

Properties:

Appearance	:	Yellow to brownish transparent viscous liquid
Composition	:	Sulfonic acid salt
Ionic Nature	:	Anionic
pH (2% in distilled water)	:	7.0 ± 1.0
Miscibility in water	:	Miscible
Stability	:	Stable
Compatibility	:	Compatible with nonionic & anionic products

Features:

- It is used as stabilizers in fiber production, textile processing and packing materials (e.g. polyethylene wrapping films, packing material in general).
- It is low in cost and highly effective.

Causes of Yellowing:

- The intensive yellowing of white or pastel colored textile good is very often a result of the presence of phenol-based antioxidants (butylated hydroxyl toluene derivates).
- This chemistry is low in cost and highly effective. Due to its low vapor pressure it is volatile and can be transferred to textile goods easily.

Factors influencing the Yellowing:

Various factors influence the yellowing of white textile goods in presence of antioxidants:
Storage conditions:

- Atmosphere composition in store, shop and home (NO_X beside other pollutants)
- Humidity and temperature
- Heating and ventilation
- Storage time
- Illumination

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.

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Composition of hot air, particularly on drying / curing/ heat-setting equipment with direct gas heating when nitrogen oxides are produced due to improper burning conditions.

Applications:

- Normally white PA turn yellow even under slightly acid conditions. This is due to the cationic character of the free amino end-groups of PA which interact with the antioxidant derivate.

- Allenol-PYP is preventing such yellowing while blocking the free amino end-groups of the PA. For the application in general we recommend to use slight acid conditions. Please check also whether the optical brightener is acid stable if non-volatile acids are used.

By PAD process

Softener	:	20 - 30 g/l
Nestol - PYP	:	5 - 10 g/l
pH of bath	:	5.5 - 6.0
Drying	:	as usual

Curing @160ºC for 1 min

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