



Technical data Sheet

SARAFAST SUN PES

UV Absorber for Apparel Industry

Product Information

- Sarafast SUN PES is Triazine based dispersion. Suitable for Dyeing and printing of textiles for sun protective clothing.
- To improve the sun screening properties of items such as children's and baby wear, open-air sports wear (e.g. jogging, football, tennis, golf, sailing, etc.), beach, swim and leisure wear (T-shirts, shirts, blouses, hats, etc.), agricultural work wear, and uniforms (military, post office, police, school, etc.).
- To improve the sun screening properties and stability to light of technical textiles such as tenting, roofing, awning and parasol fabrics, other fabrics used to provide shadow, shade and household textiles such as blinds..
- Sarafast SUN PES provide outstanding stability against heat and light.

Key Features & Benefits

Key Features	Benefits
UV absorber	Reduces fibre damage
Triazine chemistry: Triazine chemistry is undeniably a cornerstone of modern industrial advancements, known for best UV stability.	Counteracts photochemical Fibre and dye degradation, especially on long-term exposure to light and heat
Low amounts applied on polyester textiles give maximum and durable sun protection.	UPF 50+ ensured on textile fabrics of appropriate construction.
Highest extinction rates over a wide range of UV rays.	Full absorption of UV rays hence maximum light fastness, functionality and stability of PES Fibres
Highly Exhaustible	Recommended for High Temperature dyeing processes, continuous pad-thermosol application and direct printing Maximum protection against UV rays, including after heat-setting
Stable to alkaline conditions.	Suitable for dyeing in alkaline conditions as well as alkaline discharge printing processes.
Low viscosity and good storage stability.	Pumpable and easy to handle. Suitable for container transport and storage.
Fine particle size with remarkable dispersion stability properties.	Homogeneous dispersion, even at a high heating rate and under unfavourable dyeing conditions like package dyeing.
Good dispersion stability and low foaming	Suitable by exhaust method in soft flow, package & jet dyeing machine
Has no intrinsic color when applied in exhaust process.	Ensured brilliance and clarity, including of pale shades.

Disclaimer

Typical properties should not be considered as specification.

Product covered by valid patents are not offered or supplied for commercial use. The Patent position should be verified by the customer.

Products will not be supplied to countries where they could be in conflict with existing patents.

Products currently covered by valid US patents are offered for R&D use in accordance with 35 USC 271 (e) (I)

Above information is given in good faith and without warranty.



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General Characteristics

Physical appearance	:	White to pale yellow dispersion
Chemical Constitution	:	Dispresant- containing Triazine derivative
Ionic nature	:	Non-ionic
pH of 1% solution	:	6.5-9
Specific Gravity at 20° C	:	1.05 g/cm ³
Miscibility	:	Dispersible with water
Compatibility	:	Compatible with anionic and non-ionic products
Stability	:	Stable in hard water to acids and alkalies, pH values 4 to 10

Application

Sarafast SUN PES UV absorber is added to the liquor at the start of the dyeing cycle and applied by the HT exhaust or pad-thermosol method.

Stir well before removal from the container

1. Exhaust application during polyester dyeing with disperse dyes.

- Dosage : 1.5 -6%(on weight of the fabric)

2. Thermosol pad application

- Dosage : 20-50 g/l(50-60% liquor pick-up)

Note

- Sarafast SUN PES can be applied in presence of carrier, however the carrier residues may impair the light fastness properties of fabric.
- The effects attainable depend on the type of polyester Fibre (texture, amount of delustrant, denier and cross section), the dyes used and the individual shade.
- Sarafast SUN PES shows a slightly yellow self-shade in printing and pad-thermosol application. Certain bright shades might be impaired by this whereas on trichromatic systems it could minimize the fading of the yellow component.

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 : 12 months from the date of manufacturing, if stored under controlled conditions.

Packing: 50 kg, 200 kg HDPE Drum

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