



Sarex Chemicals

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

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PRODUCT LITERATURE

SARAFLAM-DUR

Product Information

Saraflam-DUR is an organo phosphorous durable flame retardant for 100% cellulosic fibres such as cotton and regeneratred cellulosic fibres like viscose,modal,tencel. Saraflam-DUR chemically reacts with these fibres thereby imparting durable flame retardency which can withstand several launderings and dry cleanings. Saraflam-DUR does not affect the drape of the fabric and does not leave any white residue on the fabric thus minimum effect on shade.

Saraflam-DUR can also be combined with other finishing agents. Saraflam-DUR prevents flame propagation in presence of fire. It is recommended for home textiles, industrial textiles and apparels.

Key Features & Benefits

Key Features	Benefits
High performance	No after-burning or after-glow
Durable	Withstands multiple home laundering
Handle	Does not affect feel or drape of the fabric
Economical	Cost Effective

General Characteristics

Physical appearance	: Colourless Clear semi viscous Liquid
Ionic nature	: Nonionic
pH of 1% solution	: 5 +/- 1
Miscibility	: Miscible with water
Compatibility	: Compatible with cationic, anionic and nonionic products
Stability	: Stable to dilute acids and dilute alkalies

Application

Before finishing with Saraflam-DUR, please ensure that the fabric is free from residues of earlier treatment which could otherwise hamper the performance of Saraflam-DUR



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Saraflam-DUR	: 400-600 g/l
Saraprint AC (M)	: 70-100 g/l
Phosphoric acid 80%	: 20-25 g/l
IPA	: 2-5 g/l
Saralube-2975	: 20-40 g/l
Pick-up	: 70-80% (2 dip-2 nip)
Drying	: 100-110 deg.C
Curing	: 150 deg.C, 5 min.

Please ensure that the padding temperature does not exceed 30 deg.C

Note:

- After finishing, the fabric has to be washed with 10-20 g/l soda ash (pH maintained at 9-10) to neutralise phosphoric acid and unreacted Saraflam-DUR followed by rinsing in plain water twice or thrice.
- Final pH of fabric should be 6.5-7 before drying.
- Dry add-on of minimum 25-30% ensures required performance
- Flame retardency depends upon actual add-on of Saraflam-DUR on the finished fabric, therefore lab trials are recommended to arrive at required dosage

Saraflam-DUR is recommended for following test methods.

1. ISO 15025:2016 and also complies ISO 11612: 2015, ISO 14116:2015
2. BS 3119 (1959) Vertical flame test
2. BS 5852 Cigarette bud test for upholstery
3. BS 5852 Part 1 (1979), BS 5651 (1978) for upholstery
4. ASTM D6413 has been adopted from Federal Test Standard No.191A method 5903.1

Precautions

Storage : Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature



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should not exceed 35 deg C. Close lids firmly to avoid contact with air and moisture.

Shelf Life : 9 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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