

ITOFLAM PESX is a 50 wash durable flame retardant designed specifically for exhaustion onto polyester fabrics in the dyebath.

PROPERTIES

- **Appearance** : Clear liquid
- **Ionic Nature** : Nonionic
- **Viscosity (20°C)** : Free flowing
- **Solubility** : Soluble in all proportions
- **pH** : 6 - 9
- **Solids Content** : 93 - 97%
- **Storage** : 12 month shelf life if stored between 5°C and 40°C

APPLICATION

In Dyebath:

- **ITOFLAM PESX** : 4 - 10%
- **Drying** : 110°C for 2 min.

CHARACTERISTICS

1. Applicable to all forms of polyester: Piece, yarn and loose stock
2. Simple dyebath application
3. Can replace most levelling agents or carriers
4. Soft, non greasy handle
5. No discolouration of white fabrics
6. Treated goods can be after finished, such as napped, without reaction or build up on machinery
7. Non Foaming
8. Durable to 50 washes at 60°C
9. Non brominated
10. Formaldehyde free
11. Can pass the most stringent flame retardance tests: NFPA-710: Crib 5: CFR 16 parts 1615/1616: BS5867, EN533, NF92-504(M1): FAR25853: MVSS-302

DISCLAIMER

The information herein offered is based on the best of our knowledge at present. However, we are not able to guarantee these matters, as the result of application may vary according to conditions adopted. Preliminary tests are, therefore, recommended in all cases. Please refer to MSDS regarding handling of the products.

MAGNACOLOURS[®]
IMAGINATION INK[™]



MagnaColours Limited
Upper Cliffe Road,
Dodworth Business Park,
Barnsley, S75 3SP, UK

T: 00 44 (0) 1226 731751
F: 00 44 (0) 1226 731752
E: info@magnacolours.com
www.magnacolours.com

Company registered in
England No. 01378495,
VAT No. GB 997 3172 70



APPENDIX

The following procedure is recommended for application of ITOFLAM PESX

Preparation of Dye bath

- ITOFLAM PESX : 4 - 10%
- ITOFLAM PXNF : 1.5g/l
- ITOFLAM BUFFER CO : 0.5 - 1.5g/l (water pH depending)
- Disperse dye : X%

The dye should be pre-dispersed by sprinkling into water (50°C max) with constant agitation. The dye dispersion should then be added to the dyebath through a fine filter. Auxiliary products should be diluted prior to use.

All disperse dyes are suitable with the exception of Red 167 or 167.1, as build up of the dye is prevented. Any dye recipe using this red should be re-matched using disperse red 73.

Dyeing method

Liquor ratio (5:1 to 14:1), higher liquor ratios should be avoided as a greatly reduced FR performance will result.

Add auxiliaries to bath at 50°C at 5 min intervals. ITOFLAM PESX first, then ITOFLAM PXNF then ITOFLAM BUFFER CO.

Adjust pH to 4.5 - 5.0

Run 10 minutes at 50°C

Add pre-dispersed dyes through a fine filter

Run 10 minutes

Raise bath to 130-135°C at 1-2°C/minute

Hold for 30 - 60 minutes

Cool to 80°C if shading additions required

Cold rinse

Reduction clear

Reduction clearing is recommended as it can enhance the FR performance of ITOFLAM PESX

- Caustic Soda : 6.0g/l
- Sodium Hydrosulphite : 3.0g/l
- Detergent : 1.0g/l
- Temperature/Time : 70°C/ 20 minutes
- Rinse well and neutralise.

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