

ITOFLAM PXNF is used in combination with ITOFLAM PESX to give an effective flame retardant finish to 100% polyester fabrics by exhaust application.

## PROPERTIES

- **Appearance** : Yellowish Liquid
- **Ionic Nature** : Slightly Anionic
- **Solubility** : Soluble
- **Viscosity (20°C)** : < 150000 cps
- **PH (5% solution)** : 6.5
- **Stability** : 12 month shelf life if stored between 5°C and 40°C

## APPLICATION

### In exhaustion:

- **ITOFLAM PESX** : 4.0-10%
- **ITOFLAM PXNF** : 1.5g/l
- **ITOFLAM BUFFER CO** : Adjust to pH 4.5

## CHARACTERISTICS

1. Improves the performance of ITOFLAM PESX
2. Improves the levelling of disperse dyes
3. Eliminates the need for other dispersing and levelling agents
4. High resistance to mechanical shear
5. Non foaming

## 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**<sup>®</sup>  
IMAGINATION INK<sup>™</sup>



**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](mailto:info@magnacolours.com)  
[www.magnacolours.com](http://www.magnacolours.com)

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



The following procedure is recommended for application of ITOFLAM PESX in combination with ITOFLAM PXNF

## Preparation of Dye bath

- **ITOFLAM PESX** : 4.0-10%
- **ITOFLAM PXNF** : 1.5g/l
- **ITOFLAM BUFFER CO** : Adjust to pH 4.5
- **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.**