

ITOFLAM PFRA 88%



ITOFLAM PFRA 88% is a halogen and formaldehyde free organophosphorus based flame retardant for durable flame retardant finishing of 100% polyester fabrics.

PROPERTIES

- **Appearance** : Straw Liquid
- **Main Component** : Organo-phosphonate ester compound
- **Solubility** : Soluble
- **Viscosity (20°C)** : Free flowing
- **pH** : 2-4
- **Solids Content** : 86-90%
- **Stability** : 12 month shelf life if stored between 5°C and 40°C

APPLICATION

In Padding:

- **ITOFLAM PFRA 88%** : 100-250 g/l
- **ITOWET LJ10** : 0.1-0.5 g/l
- **pH** : 5.5 – 6.0 (adjust using 25% ammonia solution)
- **Pickup** : Recommended 65%
- **Drying** : 110°C for 2 min
- **Cure*** : 180 –210°C for 1.5 – 2.5 minutes
- **Post treatment** : 40°C wash is recommended

* If fabric is pre-heat set then curing temperature must be at least 30°C higher than pre-setting temperature.

CHARACTERISTICS

1. 50 wash durable at 60°C on polyester fabrics.
2. Can also be used on 100% nylon fabrics
3. Halogen free
4. Formaldehyde free

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.

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APPENDIX

Coating Application:

	Formulation 1 (%)	Formulation 2 (%)
Binder (water based)	45-50	45-50
ITOFLAM PFRA 88%	10-20	10-20
HBCD (HexaBromoCycloDodecane)	18-35	-
Melamine	-	18-35
Water	10-30	10-30
Thickener	1-5	1-5

The formulation is dried and cured in a single pass at 150°C for 2 minutes.

The formulation should be buffered to pH 5 using sodium Carbonate, the added amount of which is around 0.4%.

100% Nylon Application:

Follow the guidelines as for 100% polyester but no wash off is required.

Application with Fluorocarbons:

ITOFLAM PFRA 88% can be applied in combination with Fluorocarbons on both 100% polyester and 100% nylon. Because of the combination it is necessary to increase the dosage of ITOFLAM PFRA 88% by 25%.