KAPPAFLAM TM
Halogen-free flame retardant for cellulosic and polyester fibres as well as their blends

CHEMICAL-PHYSICAL DATA
Chemical composition: phosphorous-nitrogen derivative
Appearance: clear, colourless to slightly yellow liquid
pH-value 20 °C (product): approx. 3.5
Density 20 °C (g/ml): approx. 1.3

FUNCTION
KAPPAFLAM TM is suitable for the non-permanent flame retardant finishing of textiles made of cellulosic fibres, polyacrylnitrile, polyester and their blends.

Cellulose and polyester textiles finished with KAPPAFLAM TM fulfil the requirements of the “Fire Shaft Test” according to DIN 4102 (B1). With the carried out external and internal production control, the product meets the test certificate no. P-3573/849/12-MPA BS of the building supervisory board. For this reason, KAPPAFLAM TM is marked with the conformity symbol.

APPLICATION
KAPPAFLAM TM is applied by padding.

Recommended application level depending on the desired finishing effect:

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<tr>
<th>150 – 500 g/l</th>
<th>KAPPAFLAM TM</th>
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<td>Liquor pick-up:</td>
<td>approx. 80 – 100 %</td>
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The drying can be done at a temperature up to 180 °C depending on the substrate. Normally there is no yellowing of the material at high temperatures.

KAPPAFLAM TM is hygroscopic in unfavourable climatic conditions, especially in high humidity.

For paper applications:
KAPPAFLAM TM can be applied by size press, by coating devices or by spraying. Depending on the paper weight and flame retardant class to achieve, the recommended level of dry content should be between 5 – 15 % paper based on the paper weight. In use for coating, KAPPAFLAM TM can be combined and applied in combination with different binder systems.

DILUTION INSTRUCTION
KAPPAFLAM TM can be easily diluted with water of 20 °C. The combination with other finishing agents and polymer dispersions (for example for coating systems) should be tested through preliminary trials.

STORAGE
KAPPAFLAM TM remains stable for at least 6 months if stored properly and at a temperature of 20 °C in a tightly closed container.

Attention: The product freezes at temperatures below – 5 °C. After defrosting at room temperature the product can be used again.