

GGFLAM

Ecological Flame Retardent Finishing Agent



PROPERTIES:

- Excellent solubility, can be dilute any ratio with water
- Formaldehyde-Free and APEO-Free product
- Improve flame retardancy effects on all types of blended fabric
- GGFLAM can apply at from 20 °C to 130 °C
- GGFLAM can be used for foulard application
- The product does not contain prohibited substances such as PFOS and PFBS, it is easy to use
- Non-halogenated flame retardant with favorable environmental and health profile
- Can meet the requirements of fire resistance classes specified in EN, DIN, BS, ASTM and others
- (Bio-)degradable by breaking down to naturally occurring phosphate and ammonia

CHEMICAL STRUCTURE :

Carboxylic acid and phosphate salts

Appearance: Transparent/Opac Liquid

TECHNICAL PROPERTIES:

Dilution Process: Can be dilute with cold and warm water

Stability: 1 year in original drums

Product is sensitive to frost

SUSTAINABILITY REPORT:



HUMAN HEALTH

Safe Use, Transparency and Information

GGFLAM is non-hazardous, studies on life cycle data are available.
Protects life and living beings. (Halogen-free flame retardant)



WORLD AND ENVIRONMENT

Raw materials and sustainable resource use

GGFLAM contains materials from the EU's critical raw material list, actively researched and recyclable

Resource efficiency and environmental protection

GGFLAM ensures high material efficiency and minimized waste in production through recycling

PRODUCTIVITY

Integrated sustainable activity

GGFLAM is a formulation developed in partnership with our Customers

Performance advantages

GGFLAM supports the availability of Eco-labels with its consistently high quality and hydrolytic stability, customer products.



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ROADMAP TO
ZERO

GGFLAM

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APPLICATION:

It is suitable for non-durable flame retardant finishing of natural fiber and chemical fiber fabrics, such as: flame retardant treatment of interior decorative materials such as carpets, curtains, wall coverings (paper), sofa covers, bedding, etc. used in hotels, public entertainment venues, and automobiles.

Cotton, Wool, Polyester, Viscose and their blends;

150 – 400 g/l GGFLAM

PICK UP: 80% - 90

100 - 140°C Drying

According to hydrophilicity of fabric recommended adding GG AIR CONZ, effect pick up

*****In last application or before should not use Hydrolic acid and Sulfuric acid in process**

Low smoke – Zipro Finishing Application for wool

150 – 400 g/l GGFLAM

AF: 80% - 90

100 - 140°C Drying

The performance of this product is extremely stable, but if used in combination with softeners, stiffeners, waterproofing agents and color fixing agents, it will seriously affect its flame retardant effect and working fluid stability; Experimental confirmation.

The product is an inorganic salt compound. If it is used excessively, it will have a certain effect on the texture of the fabric and there may be the phenomenon of white matter precipitation during the storage of the fabric.

Storage :

The product sensitive to frost and heat and must not be stored at temperature below 0°C or above 40°C . Irreparable damage is possible. In case of suspected frost or heat damage , the usability of the product has to be checked before processing.

Attention :

The above recommendations are based on comprehensive studies and experience made in practical finishing. They are, however, without liability regarding property rights of third parties and foreign laws. The user should test for himself whether the product and the application are suited for his very special purposes. We are, above all, not liable for fields and methods of application which have not been put down by us in writing. Advice for marking regulations and protective measures can be taken from the respective safety data sheet.

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