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Associazione Tessile e Salute
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p.IVA 00736390964 C.F. 02639210158 c.c.i.a. Milano n. 927455 Codice ISS azienda 00736390964

ANTIFIAMMA STE

NOT PERMANENT FLAME-RETARDANT FINISHING FOR CELLULOSIC FABRICS

CHEMICAL AND PHYSICAL CHARACTERISTICS

CONSTITUTION: Salt complex

APPEARANCE: clear colorless liquid

pH T.Q. 2.8 +/- 0.6

SOLUBILITY : Can be diluted in water in all proportions

STABILITY STORAGE: Stable for a long time at room temperature in sealed containers.

freezing point: > -15°C

APPLICATIONS

- Flame retardant effects combined with oleo effects and / or water-repellent
- Fireproofing of mixed fabrics (cellulosic and synthetic fibers)
- In the treatment of fabrics coated with latex

The clothing items of cellulosic fibers (cotton, linen, jute, ramie and rayon staple), for which normally use is made of a fire-retardant finishing, as following:

- Working clothes for welders and smelters;
- Protective suits for firefighters, employees at the petrol pumps and other similar activities involved;
- Nightgowns and pajamas;
- Aprons and gowns;
- Combat suits for pilots;

and other items for decoration in general, as well as bed linen and table linen, in order to prevent both the clothing and the environment fires around us. All fabrics suited to the above uses, can now be subjected to a flame retardant finishing.

GENERAL INFOs

The ANTIFIAMMA STE is a flame retardant product to non-permanent effect, suitable for all cellulosic fibers. It has been especially designed to minimize the hardening of the fibrous substrate on which it is applied and is characterized by an excellent resistance to high temperatures.

The ANTIFIAMMA STE has good compatibility with a lot of lactic acid, and water repellent fluorochemicals. It also gives a "hand" soft.

The ANTIFIAMMA STE is not dermatologically harmful; it is an easily manageable liquid and that does not present problems of solubility.

The ANTIFIAMMA STE provides durable impregnation, stable in storage, without affecting the tissue or dyes. The product contains only one surfactant, compatible with high concentrations of salts, to combat the spots of water (or moisture).



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TECHNICAL INFORMATION - APPLICATION

The ANTIFIAMMA STE is typically applied by padding. To ensure an even penetration, the goods must be well prepared; just so you can be sure to get a flame retardant effect uniformly distributed over the entire surface of the fabric.

METHODS & OPERATIVE RECOMMENDED

The ANTIFIAMMA STE can also be applied by spray treatment:

a) To obtain the only flame retardant effect: ANTIFIAMMA STE 300-400 g/l

The amount of ANTIFIAMMA STE request, depends on the substrate and the final characteristics of use.

Generally the addition of 10-12% of dry matter on the tissue produces a flame retardant effect enough to fit in the rule relating to the test of vertical burn up to 3 inches (~ 8 cm)

b) Determination of dimensional stability:

In certain cases it is necessary to employ resins and catalysts, to secure the dimensional stability of the fabric, which has become essential for subsequent coating operations.

In these cases, ANTIFIAMMA STE compatibility must be studied from time to time.

c) In order to achieve flame retardant effects of mixed cellulosic / synthetic fibers fabrics:

ANTIFIAMMA STE may be used to treat mixed fabrics having a percentage of synthetic fibers not exceeding 35%. When mixed they have a content of synthetic fibers 35%, it is recommended to use a quantity of ANTIFIAMMA STE, 1.5 times greater than the amount normally used.

The amount of ANTIFIAMMA STE is decreased proportionally to the decrease of the synthetic fiber content.

DRYING CONDITIONS

ANTIFIAMMA STE applications do not require curing. The temperature and the drying time can vary considerably.

It is however recommended, not to exceed the temperature and times comprised between 90°C and 100°C, for a time of from 1 to 5 minutes.

Keywords: flame retardant, flame, fire, cellulosic, cotton

The data are the result of careful studies and / or experience obtained, however, they should be considered indicative and still no guarantee of employment. Data contained in this document is not intended to be specific.

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