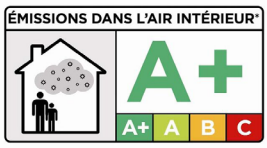
Technical Data Sheet

Protecflam Industries
Edition 11/05/2026





Hydroflam® TN12

Flame retardant liquid for fabrics made from plant fibers.

Description

Hydroflam® TN12 is a flame retardant aqueous mixture used to retard inflammation, limit post-combustion and delay the loss of mechanical properties of fabrics of natural origin such as cotton, burlap, velvet, etc.

Use

Hydroflam® TN12 comes in liquid form (without VOC or formaldehyde), odorless and colorless. It's ready for use. It can be colored (powder dye or liquid acrylic) for aesthetic effect or traceability.

The fireproof material, once dry, may be tinted only with non-derating products.

Prevents the spread of flames and fire and reduces the development of smoke.

Must be used indoor in dry and closed rooms.

Advantages

Hydroflam® TN12 is non-toxic, odorless and safe when used in accordance with basic safety rules.
Hydroflam® TN12 has a high performance yield and is easy to apply.

Reaction to fire

M1 grade according to NF P92-512. Record FCBA n° CM-17-P-064 (on cotton fabric)
M1 grade according to NF P92-512. Record FCBA n° CM-17-P-065 (on linen fabric)

protecflam

Protecflam
31, rue de l'Etoile du Matin
FR- 44600 Saint Nazaire
www.protecflam.fr
contact@protecflam.com
+33(0)2 40 90 10 80

Technical Data Sheet

Storage

Storage should be carried out in the original, unopened packaging.
Store at temperatures between +5 ° C and +30 ° C up to 24 months from the date of production.
Store in a cool, dry place.

Stock containers : 1 kg - 5 kg - 10 kg - 30 kg
Please contact us for larger container supplies.
Hydroflam® TN12 must not be exposed to temperatures below 0°C.

Technical data

Density : approx. 1,2 g/cm³ at 20°C

Solid body content (weight) : N/A

pH : approx. 4,3

Information

Hydroflam® TN12 is a flame retardant aqueous product that improves the fire reaction of the substrates onto which it is applied by retarding inflammation and inhibiting the propagation of flames and combustion. The classification may then reach up to M1 grade, depending on the texture of the material and how the product is applied (contact us for further information).

Modus operandi

The substrate must be dry, free of dust, oil, wax, grease, dirt, resin, etc.

Hydroflam® TN12 shall be applied following one of these 3 methods on clean, dry, porous fabrics :

- Spraying up to saturation point of fibers with flat jet nozzle (both sides)
- Soaking (total immersion in the flame retardant liquid)
- By padding (yields depending on other treatments and aimed results)

Let dry between 12 and 72 hours depending on the temperature and hygrometry. Heat dryer and/or fan may be used. A slight shrinkage of the fiber may occur.

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Limite

Material temperature

Minimum +5°C, maximum +30°C

Recommended yields

The quantity of Hydroflam® TN12 varies according to the nature, composition, mass of the support and the fire classification targeted.
A minimum of 30% of the substrate weight must be used.

- E.g. : for 200 g of cotton fabrics, 60 g of Hydroflam® TN12 is required. The total weight of damp cloth shall then be 260 g.

Cleaning

With hot water, immediately after the completion of the work.

Remarks

Fabrics requiring treatment should be tested before application.
A possible change in color or appearance may occur depending on the colorants and finishes used. Yellowing effect may be observed on light fibers.

A change in touch may occur on some fabrics. Make sure that the fabric has not received any prior treatment (anti-stain or water repellent, for instance). Compatibility with Hydroflam® TN12 must first be tested on a small patch. Hydroflam® TN12 does not last after washing or raining. Dry cleaning is possible (subject to validation of ongoing tests).

Values

All technical values indicated in this technical data sheet are based on laboratory tests. Circumstances beyond our control can lead to deviations from actual values.

Safety

For further details, please consult the current Safety Data Sheet from Protecflam Industries.

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