

CHEMICAL NAME:

FLAME STOP® I-C

PRODUCT DATA SHEET



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DESCRIPTION:

Flame Stop I-C is a post-treatment fire retardant designed exclusively for fabric that contains a minimum of 25% natural fiber. This product dries clear. This product is designed to not change the color or hand (feel) of the fabric. I-C was vigorously tested by the California Title 19 test which surpasses the NFPA 701. When the treated material is subjected to an open flame, the retardant will pyrolytically self-extinguish fire with minimum smoke. Flame Stop I-C is completely non-toxic and non-hazardous to the environment and easy to apply.

BASIC USES:

Flame Stop I-C should be used for interior fabric applications with a minimum natural fiber content of 25%. Fabrics must be cleaned before application. The life of the flame retardancy is indefinite as long as fabrics are not wet washed or exposed to high humidity, however they may be dry cleaned up to 15 times. All of our products were tested using single-coated materials. Flame Stop I-C is often chosen because it is non-toxic, dries clear, easy (spray, brush or roll) application.

ADVANTAGES:

Flame Stop I-C has one main advantage over other fire retardants in the market, in most cases after treatment the fabric looks and feels exactly the way it did before this product was applied, the fabric gains only one characteristic, it becomes fire retardant.

LIMITATIONS:

Do not dilute. Storage Range: 110 degrees F. to 45 degrees F. Shelf Life: 3 years if kept within storage temperatures. **FABRIC MUST BE CLEANED BEFORE APPLICATION.** If the fabric is not clean before application it may leave dirt streaks. A simple way to test this before application is to spray a small portion with water and notice the characteristics. A re-coat may be required on some materials. A strong compatibility test is recommended.

APPLICABLE STANDARDS:

Flame Stop I-C has been tested to the following standards:

U.S. Testing No. LA41266, California Title 19, FAR 25.853, Meets or exceeds NFPA 701.

California State Fire Marshal Approval C-14401.

APPLICATION:

Flame Stop I-C should be applied as is by spraying or immersing. In order to be effective there must be a 2-5% increase in the weight of the fabric. A heavier coat may be needed on fabrics that have a higher density. Since all fabrics have a different density a small test should be performed by the utilization of a small flame (butane lighter). Hold a 4" X 12" piece of the treated material vertically and apply the flame to the lower portion for 10 seconds, remove the ignition source. The flame must go out within 2 seconds. (This test is similar to the small-scale NFPA 701 field test)

**** After treatment a 24 hour conditioning period is necessary before testing ****

| Technical Support | |
|----------------------------|------------------------------------|
| Total Solids: | 9% |
| Wt Per Gallon: | 9 lbs. |
| Average pH: | 5.3 |
| Color: | clear |
| Solvents: | water |
| Bacterial: | good resistance |
| Fungus: | good resistance |
| Volatility: | none |
| Toxic: | no |
| Biodegradeable: | yes |
| Corrosive: | mildly corrosive on unplated steel |
| Linear Shrinkage: | none |
| Insects, Rodents and mold: | excellent resistance |



**TESTED BY:
U.S. TESTING
COMPANY INC.**

WARRANTY:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith.