



# Flexiguard™ FR-42

## Overview

- Flame Retardant Renders Fabrics, Paper and Wood Products Nonflammable
- Works on Most Synthetics, Naturals and Blends
- Water Soluble, Low VOC, Non-Regulated by DOT
- Properly Treated Fabrics will Meet Requirements Established by the Office of the State Fire Marshal of the State of California
- Properly Treated Fabrics will Meet NFPA Standards Including NFPA 267 - Motor Vehicle Safety Standard 302, NFPA 703 – Standard for Fire Retardant Impregnated Wood and Building Materials, NFPA 701, and California Title 19 for Treated Fabric
- Compatible with Latex Backings
- Provides Excellent Antistatic Properties in Addition to Flame Retardancy

## Applications

- Household Fabrics
- Draperies
- Upholstery Fabrics
- Mattresses
- Cellulosics
- Paper
- Wood Products

## Technical Information

Flexiguard FR-42 is a water based flame retardant that can be easily applied to both cellulosic and synthetic fabrics to prevent flame spread. A wide variety of fabrics (acrylics, cellulosics, cellulose acetates, polyamides, polyesters, wools, and blends thereof) can be successfully treated with Flexiguard FR-42 to surpass the flame retardant requirements of most states and municipalities. Fabrics treated appropriately by manufacturers have passed ASTM D1230-94 (2001), the Standard Test Method for Flammability of Apparel Textiles. Please note that this product is not suitable for the treatment of Children's Sleepwear, which is covered by a separate standard (ASTM D 6545-00) in order to fully comply with CFR Part 1610. This product must be reapplied after laundering or extraction cleaning, since it is water soluble and therefore not durable to aqueous cleaning processes.

California Technical Bulletin 117 provides a series of tests to examine resistance to ignition when subjected to open flames. Proper application of Flexiguard FR-42 provides flame resistance adequate to pass these tests. As fabric differences and treat rates can dramatically impact results, the treated fabrics must actually be tested after treatment to ensure that they meet the specific standard of relevance in your specific application.

## Formulary

Flexiguard FR-42 is a concentrate. Typical use dilutions range from 25 to 40% in water, used at 10-20% wet-pick-up (wpu) or applied 2-3 oz. per sq/yard.

Appearance	Pale Yellow Liquid
Density @ 25°C	1.25 +/- 0.02 g/ml
Solids	42 +/- 1%
pH (neat)	7.0 - 7.3
Water Solubility	Soluble
Boiling Point	Approx. 100°C
Odor	Mild

## Typical Properties

### Packaging and Handling

Flexiguard FR-42 is available in totes (Net Wt. 2800 lbs), 55 gallon drums (Net Wt. 560 lbs), and 5 gallon pails (Net Wt. 40 lbs).

DOT Classification is Non Regulated.

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