



บริษัท ท็อปส์ ซินเนอร์จิสต์ จำกัด
TOPS SYNERGIST CO.,LTD.

TECHNICAL DATA SHEET

TOPS FR-200

PRODUCT DESCRIPTION

TOPS FR- 200 is a water soluble flame retardant additive designed for various synthetic as well as cellulosic fabrics to prevent fire spreading and smoldering.

TYPICAL PROPERTIES

Appearance : Pale straw color liquid

Active : 38 + 1%

pH (Neat) : 6.0 – 7.0

Specific Gravity : 1.21 -1.31

Solubility : Miscible with water

TYPICAL APPLICATIONS

TOPS FR- 200 can treat many kinds of fabrics such as acrylonitrile fiber, cellulosic fibers, polyamide fibers, polyester fibers, wool and their blends. But it is not suitable for fabrics which contain more than 70% acrylic.

The fabric to be treated should be clean and absorbent as the presence of dirt, size, natural waxes or applied finishes will prevent efficient absorption of

TOPS FR- 200 and may impair final fabric properties. The add-on required varies from 6% - 12 % depending on the nature of the fabric and the test method applied to the treated fabric.

It is advisable to determine the add-on required to give satisfactory flammability by a small scale laboratory test before commencing treatment on a large scale. It is recommended to apply **TOPS FR- 200** by padding process and then dry the fabric at a temperature under 100°C



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TOPS FR- 200 is not fast to washing or water and the treatment must be renewed after laundering the fabric. **TOPS FR- 200** treatment will withstand dry cleaning, e.g. the performance of a variety of treated fabrics is not affected by 10 commercial dry-cleaning cycles based on per-chloroethylene. However, any aqueous additives or use of “charged” dry cleaning systems must be avoided.

PACKAGE AND STORAGE

Crystallization may occur when below 5°C , but resolvable with dilution or heating under 30 °C 250 kgs net , 260 kgs gross in PE drum.

The above information is provided base on our present knowledge and expertise and intended to serve as a general guidance on our product and it use, it is provided without any guarantee, users are advised to conduct trial under their our conditions.