

MYSTOX MP

Textile Auxiliary Product Data

Function	An insect-resist treatment for wool and wool blends.
Benefits	Mystox MP provides effective resistance for Wools of New Zealand branded carpets, as well as Woolmark and Woolmark Blend items. It is listed in Wools of New Zealand publication “Carpet Technical Information – Insect Resist Treatment” and The Woolmark Company publication E10 – “Specification of Insect Resistant”.
Composition	A non-ionic, self-emulsifying concentrate containing Chlorfenapyr.
Description	A pale yellow, free-flowing liquid, readily dispersible in water to produce a macro-emulsion. Density : 1.00 gm per cm ³ Ionic character : Non-ionic
Application	Mystox MP has been designed to be suitable both for use in dyebath application and in continuous application using tape scour machines or the WRONZ Chemset machine. Mystox MP is also well suited to foaming application using commercially available autofoam equipment.

Dyebath Application

Mystox MP is suitable for dyebath application to wool in loose stock or yarn form. The product exhibits good exhaustion rates under normal industrial wool dyeing conditions. Mystox MP should be applied at pH 6.0 or below and should be added to the dyebath after other chemical additions have been made.

Continuous Application

Ideally Mystox MP should be metered continuously in its concentrated form into the final bowl of a tape scour range or into the mini-bowl of a Chemset machine. Where pre-diluted stock solutions of Mystox MP are used it is essential to ensure continuous mechanical agitation of the stock solution.

Concentration

Wools of New Zealand brand requirements

The Initial Concentration Rate (ICR) is defined in the WNZ “Carpet Technical Information – Insect Resist Treatment” as the minimum concentration which

must be present on the item immediately following manufacture. WNZ defines the Suggested Application Rate (SAR) as the amount suggested for application to achieve the ICR with some safety margin. ICRs and SARs vary according to both the level of protection required and the method of application used.

Dyebath Application

	<u>Rate 1</u>	<u>Rate 2</u>	<u>Rate 3</u>
ICR	0.162%	0.189%	0.243%
SAR	0.180%	0.210%	0.270%

Continuous Application

	<u>Rate 1</u>	<u>Rate 2</u>	<u>Rate 3</u>
ICR	0.194%	0.227%	0.292%
SAR	0.233%	0.272%	0.350%

Woolmark, Woolmark Blend and Wool Blend requirements

The minimum percentages of Mystox MP present on the item following cleaning and light fastness testing to Woolmark TM28 are defined in The Woolmark Company E10 – “Specification of Insect Resistant”. The minimum percentage varies according to the level of protection required.

<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Level 4</u>	<u>Level 5</u>
0.117%	0.117%	0.136%	0.175%	0.175%

Handling

Wear suitable gloves and eye/face protection when handling.

Do not discharge into drains or the environment. Disposal should be in accordance with local, state or national legislation.

This product will deteriorate if frozen.

Appropriate storage conditions should therefore be arranged.

For further information see product Safety Data Sheet.