

Michem® Lube 190

BRAND FAMILY OVERVIEW Michem® Lube is a versatile family of nanoscale wax emulsions, mostly carnauba and paraffin-based, used to improve processing and performance in many industries, as well as provide a wide array of surface properties.

USAGE Provides mar, rub, block and scratch resistance as well as improved water resistance in coatings and graphic arts formulations.

DESCRIPTION Anionic polyethylene wax emulsion

PERFORMANCE ATTRIBUTES This product is used in many applications including the following:

Market	Properties Imparted
Building Paints	<i>block resistance, durability, mar resistance, water resistance</i>
Concrete	<i>stain and dirt resistance</i>
Die Lubes & Mold Releases	<i>lubricity, mold release</i>
Exterior Wood Protection	<i>durability, scratch resistance, water beading</i>
Furniture Polish	<i>mar resistance</i>
Industrial & Institutional	<i>abrasion resistance</i>
Industrial Maintenance	<i>block resistance</i>
Industrial Wood & Plastic	<i>abrasion resistance, block resistance, lubricity, scratch resistance</i>
Inks	<i>block resistance, mar resistance, rub resistance, scratch resistance</i>
Interior Furniture & Floor	<i>block resistance, durability, mar resistance, water resistance</i>
Leather	<i>block resistance, lubricity for needle and thread</i>
Overprint Varnishes	<i>block resistance, mar resistance, overprints with heat resistance, rub resistance, scratch resistance</i>
Thermal Transfer	<i>mar resistance</i>

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PHYSICAL PROPERTIES

The following properties are typical but should not be considered specifications:

Appearance:	Amber, translucent liquid
Freeze/Thaw Stability:	None: protect from freezing
Non-Volatile (%) :	34.5 - 35.5
Specific Gravity:	0.98 - 1.00
pH:	8.7 - 9.7
Recommended pH of your system:	> 7.0
Brookfield Viscosity (cps) :	< 50
Spindle Number:	1
RPM:	60
Shelf Life (months) :	The product has a shelf life of 24 months from date of manufacture when storage and handling instructions are followed.

**SITE OF MANUFACTURE
(and PRODUCT CODE)**

USA (ML190), Belgium (ML190.E), Singapore (ML190.S)

STORAGE

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.

HANDLING

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.

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The following information for this product, specific to each site of manufacture, is available upon request:

- Material Safety Data Sheets in various formats and languages (includes global chemical inventory listing)
- Food Contact Declaration of Compliance (if applicable)

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