

# 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:

<b>Market</b>	<b>Properties Imparted</b>
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>
Overprint Varnishes	<i>block resistance, mar resistance, overprints with heat resistance, rub resistance, scratch resistance</i>
Textiles & Leather	<i>block resistance, lubricity for needle and thread</i>
Thermal Transfer	<i>mar resistance</i>

# Michem® Lube 190

---

**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 container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

**HANDLING**

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

Revised 28 October 2016

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)

# Michem® Lube 190

---

## Americas

Michelman Inc.  
9080 Shell Road  
Cincinnati, Ohio 45236-1299 USA  
Tel: +1 513 793 7766  
Fax: +1 513 793 2504

## Asia Pacific

Michelman Asia-Pacific Pte. Ltd.  
2A Tuas Avenue 12  
Singapore 639023  
Tel: +65 6861 2822  
Fax: +65 6861 2262

## Europe, Middle East, Africa

Michelman SARL  
11, rue de l'Industrie  
L-8399 Windhof  
Luxembourg  
Tel: +352 26 39 44 1  
Fax: +352 26 39 44 80

## China

Michelman (Shanghai)  
Chemical Trading Co., Ltd.  
Room 127, Building 5  
Zhongtian Science Technology Park  
No. 787 Kangqiao Road  
Shanghai, China 201315  
Tel: +86 21 2098 6880  
Fax: +86 21 2098 6881

## India

Michelman Private Limited  
(formerly known as  
Michelman Chemicals Pvt Ltd)  
First Floor  
Plot NO 61CD  
Government Industrial Estate  
Charkop, Kandivali (West)  
Mumbai-400 067  
India  
Tel: +91 22 28672783  
Fax: +91 22 28672784

Ecronova Polymer GmbH  
Alte Grenzstraße 153  
D-45663 Recklinghausen  
info@ecronova.de  
Tel: +49 (0) 2361/6605-0  
Fax: +49 (0) 2361/6605-55

The facts stated and the recommendations contained herein are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application for our products nor anticipate every variation encountered in manufacturing equipment and methods. The products discussed are sold without warranty, express or implied and Seller disclaims any warranty of merchantability or fitness for a particular purpose in connection with the purchase of its products. It is recommended that purchasers conduct their own tests to determine the suitability of such products for their particular purpose. Seller shall not be liable for any injury, loss or damage, direct or consequential arising out of the use of or the inability to use the product. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent and our products are sold without warranty of non-infringement.

© 2018 MICHELMAN, INC. All rights reserved. ® Reg. U.S. Pat. TM Off.  
All marks contained herein are registered or owned by Michelman, Inc.  
Michelman is ISO 9001:2015 certified.