



Technical Data Sheet

XIAMETER™ PMX-1501 Fluid

INCI NAME: Cyclopentasiloxane (and) Dimethiconol

Features & Benefits

- Film forming
- Imparts soft velvety skin feel
- Conditions hair, especially split ends
- Long lasting, resistant to wash off
- When used in deodorants
 - Long lasting fragrance retention capacity (up to 24 hrs)
 - Immediate drying
 - No burning sensation
 - Soft and smooth feel
- Preference over alcohol when used in deodorant formulation

Applications

Areas of potential use for XIAMETER™ PMX-1501 Fluid encompass a wide range of Cosmetic and Toiletry applications such as:

- Skin Care
- Color Cosmetics
- Sun Care
- Hair Care
- Shower Gels
- Antiperspirants and Deodorants

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Value
Appearance		Clear viscous fluid
Non - volatile content	%	14–15
Viscosity at 25°C (77°F)	cst	4500–8000
Refractive index at 25°C (77°F)		1.396
Flash point	°C	> 62
	°F	> 143.6

Description

XIAMETER PMX-1501 Fluid is a blend of approximately 15% of an ultra high viscosity dimethiconol in cyclo-pentasiloxane. The skin feel of XIAMETER PMX-1501 Fluid has been demonstrated to be equivalent to that of XIAMETER™ PMX-1401 Fluid.

Formulation Tips

Emulsion Products:

1. XIAMETER PMX-1501 Fluid can be incorporated directly into the oil phase of the formulation.
2. If temperatures above 70°C (158°F) are being used to melt the oil phase, XIAMETER PMX-1501 Fluid should be added slowly after the formation of the emulsion, and below 60°C (140°F), using a high shear mixer.

Non-Emulsion Products: It is advisable to add cosmetic ingredients to the silicone and not vice versa as often ultra-high molecular weight dimethiconol is incompatible with other cosmetic ingredients.

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life And Storage

Product should be stored at or below 25°C (77°F) in original, unopened containers.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. Not intended for human injection. Not intended for food use.

Health And Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

Compatibility

Type of material	
Water	I
Ethanol (200 proof)	up to 26%
Propylene Glycol	I
Octyl Methoxycinnamate	up to 12%
Hydrocarbons	
Mineral oil - 8 mm ² /s	up to 58%
Isododecane	C
Isopar H	C

C: Compatible all ratios

I: Incompatible all ratios

UNRESTRICTED – May be shared with anyone

©™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

XIAMETER™ PMX-1501 Fluid

© 2017 The Dow Chemical Company. All rights reserved.

Compatibility (Cont.)

Type of material	
Oils	
Almond oil	up to 9%
Castor Oil	I
Jobba oil	up to 14%
Soybean oil	up to 8%
Sunflower oil	up to 9%
Esters	
Isopropyl Myristate	C
Isopropyl Palmitate	up to 79%
Octyl Palmitate	up to 53%
CfE-Cf† Alcohol benzoate	up to 35%
Capric/Caprylic Triglycerides	up to 32%
Octyldodecanol	up to 23%
Oleyl Alcohol	up to 13%
Silicones	
Dimethicone (All viscosities)	C
Phenyl Trimethicone	C

Up to: X% of the tested material is compatible with the remaining % of XIAMETER PMX-1501 Fluid.

<http://www.xiameter.com>

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

