



Technical Data Sheet

XIAMETER™ OFX-5220 Fluid

INCI Name: PEG/PPG-17/18 Dimethicone

Features & Benefits

- Functions as a resin plasticizer
- Low usage levels required
- Compatible with ethanol and water

Composition

- Imparts softness and body to hair
- No undesirable whitening effects

Applications

- A resin modifier that can be used with hair fixative products such as hairsprays, mousses, setting lotions and styling gels.
- Resins used with XIAMETER™ OFX-5220 Fluid demonstrate improved hold when compared to resins without the resin modifier, making it ideal for formulating super holding products. Additionally, the silicone plasticizes the resin making it useful in any fixative product. Usage levels for this product range from 0.1 to 1.0%.
- For a typical hair fixative, start with 10 to 30% of resin modifier based on resin solids.
- XIAMETER OFX-5220 Fluid is readily compatible with ethanol and water, therefore easily incorporated into any type of fixative product.
- Use of XIAMETER OFX-5220 Fluid plasticizes resins making the resin film softer, more flexible, less tacky and easily removable without flaking.

Typical Properties

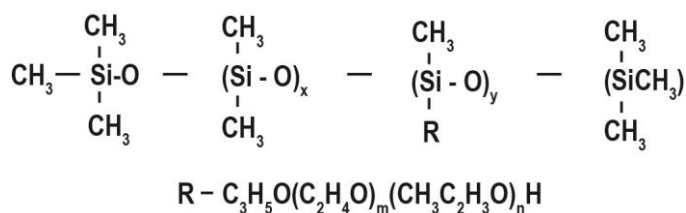
Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
As supplied		
Appearance		Translucent, yellow to brown liquid
Color (Gardner scale), maximum		6
Viscosity at 25°C (77°F)	mm ² /s	1000
Specific gravity at 25°C (77°F)		1.03
Flash point - closed cup	°C °F	100 212

Description

XIAMETER OFX-5220 Fluid is a liquid silicone glycol copolymer. The chemical formula is described in Figure 1.

Figure 1: Chemical formula for XIAMETER OFX-5220 Fluid.



Regulatory Status

XIAMETER OFX-5220 Fluid is referenced in JCIC under the chemical name Poly(oxyethylene. oxypropylene) methyl polysiloxane Copolymer with the code 521013 in the CLS categories: 1-11: No limit.

**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.

**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.

<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.

