



Technical Data Sheet

XIAMETER™ OFX-8220 Fluid

INCI Name: Amodimethicone

Features & Benefits

- Compatible with a wide range of cosmetic ingredients
- Suitable for clear products

Applications

- Shampoos, conditioners, styling aids (mousses, gels, lotions), colorants, perms.
- Clear conditioning shampoos.

Typical Properties

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

Property	Unit	Value
As supplied		
Appearance		Clear to slightly hazy liquid
Viscosity at 25°C (77°F)	mm ² .s ⁻¹	145
Specific gravity at 25°C–16°C (77°F–61°F)		0.970
Refractive index at 25°C (77°F)		1.4065
Flash point–open cup	°C °F	75
Amine neutral equivalent		2000

Description

XIAMETER™ OFX-8220 Fluid is an amino functional polydimethylsiloxane. The highly basic nature of the primary amine groups on trimethylsilylamodimethicone causes this silicone polymer to develop a net positive charge in aqueous systems over a wide pH range (approximately 1 to 10.5). Consequently XIAMETER OFX-8220 Fluid is substantive to hair.

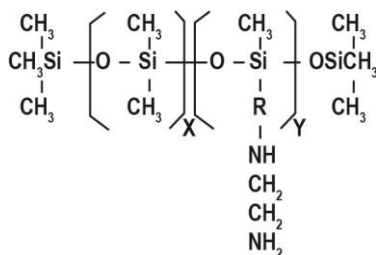


Figure 1: Chemical Formula For XIAMETER OFX-8220 Fluid

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XIAMETER™ OFX-8220 Fluid

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How To Use

Cream rinses and conditioners can be prepared by emulsifying XIAMETER OFX-8220 Fluid in water and a suitable thickening agent. XIAMETER OFX-8220 Fluid is compatible with a variety of typical hair care formulation ingredients, including quaternary ammonium salts.

Compatibility

Type Of Material	10:1	1:1	1:10
Water	1 ¹	1	1
Ethanol (95%)	S	I	I
Isopropanol (99%)	S	S	S
Cyclomethicone			
Tetramer	S	S	S
Pentamer	S	S	S
Dimethicone - 350mm/s	S	S	S
Propylene Glycol	I	I	I
Mineral Oil - 8mm/s	S	I	I
Mineral Oil - 63mm/s	I	I	I

¹Fluid can be emulsified if water dispersibility is desired.

S = Soluble, I = Insoluble.

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.

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XIAMETERTM OFX-8220 Fluid

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<http://www.xiameter.com>

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