



Technical Data Sheet

XIAMETER™ PMX-1184 Silicone Fluid

INCI NAME: Dimethicone and trisiloxane

Features & Benefits

- Cost effective low molecular weight volatile linear silicone fluid
- Faster drying rate than decamethylcyclopentasiloxane (D5)
- Not tested on animals
- Does not contain any animal or vegetable derived ingredients
- Volatile carrier
- Pleasant skin feel
- Non-staining on fabric
- Non-cooling on skin
- Reduces tack in antiperspirant and deodorant formulations
- Reduces whiteness in antiperspirants and deodorants
- Substantive in hair care applications

Applications

- Antiperspirants and deodorants
- Skin care products
- Hair care products

Typical Properties

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

Property	Unit	Result
Appearance		Colorless fluid
Silicone content	%	100
Refractive index at 25°C (77°F)		1.39
Specific gravity at 25°C (77°F)		0.85
Viscosity at 25°C (77°F)	Cp	1.45–1.75
Flash point – closed cup	°C	42
	°F	108

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XIAMETER™ PMX-1184 Silicone Fluid

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Description

XIAMETER™ PMX-1184 Silicone Fluid is a low molecular weight siloxane polymer. The bulk of composition falls between 1 and 2cSt with some higher molecular components, which may enhance solubility and/or sensory benefits.

XIAMETER™ PMX-1184 Silicone Fluid is a volatile fluid with appreciable vapor pressure at ambient temperature.

Table 1 lists the heat of vaporization for XIAMETER™ PMX-1184 Silicone Fluid and various other silicone fluids along the water and ethanol.

Table 1: Heat vaporization

Fluid	Heat of vaporization (kJ/kg at 23°C)
XIAMETER™ PMX-1184 Silicone Fluid	111
XIAMETER™ PMX-0245 Cyclopentasiloxane	157
XIAMETER™ PMX-0246 Cyclohexasiloxane	147
Ethanol	840
Water	2257

How to Use

The application of this fluid is numerous and varied and, therefore, methods and recommended concentration levels must be considered on an individual basis. For the majority of applications, this product is a cost effective alternative for low molecular weight linears or cyclics to obtain different volatility and/or solubility benefits.

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 CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life and Storage

When stored at or below 25°C in the original unopened containers, this product has a usable life of 36 months from the date of production.

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, consumer.dow.com or consult your local Dow representative.

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