

XIAMETER[®] PMX-1184 Silicone Fluid

INCI NAME: Dimethicone and trisiloxane

FEATURES

- 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

BENEFITS

- 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.

Test	Unit	Value
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

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.

Unlike other volatile carriers used in the personal care industry, volatile silicone fluids do not cool the skin when they evaporate. This is a result of their low heat of vaporization.

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 Silicone Fluid	157
XIAMETER [®] PMX-0246 Silicone Fluid	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.

PRODUCT SAFETY INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE XIAMETER WEBSITE AT WWW.XIAMETER.COM.

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.

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 *Dow Corning*® and XIAMETER® 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.

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