

XIAMETER[®] PMX-200 Silicone Fluid, 50-1,000 cSt

INCI Name: Dimethicone

Colorless, clear polydimethylsiloxane fluid

FEATURES

- Ease of application and rubout
- Ease of buffing
- Enhances color
- High water repellency
- High compressibility
- High shearability without breakdown
- High spreadability and compatibility
- Low environmental hazard
- Low fire hazard
- Low reactivity and vapor pressure
- Low surface energy
- Good heat stability
- Essentially odorless, tasteless and nontoxic
- Soluble in a wide range of solvents

BENEFITS

For personal care applications

- Skin protection
- Imparts soft, velvety skin feel
- Spreads easily on both skin and hair
- De-soaping (prevents foaming during rubout)

For industrial applications

- High dielectric strength
- High damping action
- Oxidation-, chemical- and weather-resistant

COMPOSITION

- Polydimethylsiloxane polymers
- Chemical composition
 $(\text{CH}_3)_3\text{SiO}[\text{SiO}(\text{CH}_3)_2]_n\text{Si}(\text{CH}_3)_3$

APPLICATIONS

- Active ingredient in a variety of automotive, furniture, metal and specialty polishes in paste, emulsion and solvent-based polishes and aerosols
- Various applications including cosmetic ingredient, elastomer and plastics lubricant, electrical insulating fluid, foam preventive or breaker, mechanical fluid, mold release agent, surface active agent, and solvent-based finishing and fat liquoring of leather

DESCRIPTION

XIAMETER[®] PMX-200 Silicone Fluid is a polydimethylsiloxane polymer manufactured to yield essentially linear polymers in a wide range of average kinematic viscosities.

The viscosities generally used in formulating polishes are between 100 and 30,000 cSt. To obtain optimum results, in terms of ease of application and depth of gloss, it is preferable to use a blend of a low-viscosity fluid and a high-viscosity fluid (e.g. 3 parts XIAMETER[®] PMX-200 Silicone Fluid 100 cSt and 1 part XIAMETER[®] PMX-200 Silicone Fluid 12,500 cSt). The low-viscosity silicone fluid acts as a lubricant to make polish application and rubout easier, whereas the high-viscosity silicone fluid produces a greater depth of gloss. Since these polymers are inherently water-repellent, they will cause water to bead up on a treated surface rather than penetrate the polish film.

HOW TO USE

XIAMETER[®] PMX-200 Silicone Fluid is highly soluble in organic solvents such as aliphatic and aromatic hydrocarbons, and the halocarbon propellants used in aerosols. The fluid is easily emulsified in water with standard emulsifiers and normal emulsification techniques. XIAMETER[®] PMX-200 Silicone Fluid is insoluble in water and many organic products.

Additive quantities as small as 0.1% may suffice where XIAMETER[®] PMX-200 Silicone Fluid is to be used as a surface agent or for de-soaping creams and lotions. However, 1-10% is needed for applications such as hand creams and lotions to form a more uniform film and effective barrier.

PRODUCT SAFETY INFORMATION

XIAMETER[®] PMX-200 Silicone Fluid may cause temporary eye discomfort.

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 (77°F) 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. Not intended for human injection. Not intended for food use.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.xiameter.com, or consult your local Xiameter representative.

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.

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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.

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