



TECHNICAL DATA SHEET



KATANA SATETSU PMX 20

Polydimethylsiloxane fluid



DESCRIPTION

KATANA SatetsuPMX 20—low viscosity silicone fluid based on polydimethylsiloxane. It is a colorless transparent corrosion-inert liquid without smell and taste with high dielectric, damping, surfactants, water-repellent and anti-adhesion properties.

KATANA Satetsu PMX 20 is used as a basis fluid for heat-resistant anti-adhesion emulsions for molds in tire and rubber production, for greases with a plastic-rubber or metal-plastic contact. It is used as antifoam additive, low and high temperature heat transfer fluids, insulators for power transformers, low-temperature hydraulic oils, shock absorber and damping fluids. In the rubber industry it is

used as a plasticizer for various elastomers. It is inherently and is widely used in the cosmetics industry: for lipsticks, shaving foams, hair lacquers, etc. Operating temperature range is from -60 to + 200°C.



TECHNICAL ADVANTAGES

70%

Longer life-time of oil

90%

Lower high temperature volatility

60%

Lower pour point

KATANA Satetsu PMX 20 has excellent oxidation stability due to polydimethylsiloxane basis which guarantees extended change intervals even at very high operating temperatures

KATANA Satetsu PMX 20 silicone oil has a homogeneous composition and provides high temperature stability and extremely low volatility even in open heat transfer systems

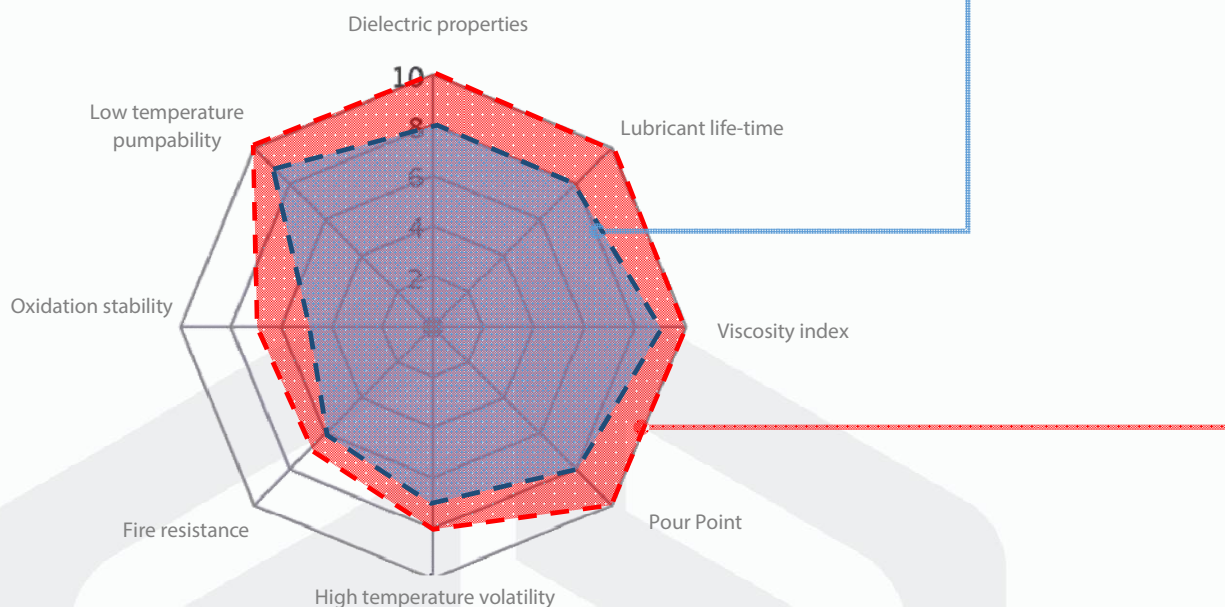
Unlike traditional synthetic oils KATANA Satetsu PMX 20 silicone oil has a pour point on 20-30 degrees lower, which makes it suitable for extremely low temperature application.



TECHNICAL PARAMETERS



Parameter		Test method	Typical silicon fluid	KATANA Satetsu PMX 20
Kinematic viscosity at 25°C, cSt		ASTM D445	20	20
Kinematic viscosity at 50°C, cSt		ASTM D445	230	170
Density at 20°C		ASTM D4052	0.945	0.960
Surface tension, N/m		-	20	19.8
Refraction coefficient		-	1.4005	1.4000
Dielectric strength, kV/mm		-	12	14
Heat capacity at 50°C, cal*g/°C		-	0.35	0.34
Flash point in open cup, °C		ASTM D92	220	232
Pour point, °C		ASTM D97	-55	-67
Autoignition point, °C		-	320	350
Noack volatility at 250°C, %		-	7	5



Physical and chemical characteristics are typical for this product. These parameters are subject to change without notification, however, full compliance with the product specifications is guaranteed.

Shelf life: 5 years from date of manufacture. Store unopened in a cool, dry, well-ventilated and away from children. Avoid direct sunlight, heat sources and strong oxidizing agents. Material Safety Data Sheet (MSDS) for professional users available on request.

Developed in Osaka, Japan. The quality management system in the production of oils KATANA corresponds to the requirements of ISO 9001. The system of environmental safety in the production of oils KATANA corresponds to the requirements of ISO 14001.