

Type:

Phenyl-Methyl Silicone Oil.
Polyphenylmethyl dimethylsiloxane

Physical Form:

Low-viscosity fluid.

Color:

Colorless to light straw.

Special Properties:

Heat resistance; high flash points; low volatility;
radiation resistance.

Primary use:

As a lubricant heat transfer medium functional fluid.

Shelf life:

When stored in their original unopened containers
at 25°C (77°F) JIT-8550 has no known limits to
useful life.

Packaging:

Supplied in net weight containers of 9, 40, and 440
pounds.

Description:

JIT-8550 Silicone Oil is a clear, low-viscosity lubricant that
features low volatility and serviceable temperature range of
-40' to 232°C (-40' to 450°F) in open systems, up to 315°C
(600°F) in closed systems. It has a high flash point, a
relatively flat viscosity-temperature slope, and desirable
heat-transfer characteristics. Good oxidative, thermal and
shear stability combined with radiation resistance make this
fluid extremely stable.

Uses:

As a lubricant - used as a base oil for high-temperature
greases; lubricating oil for clocks, oven timers, and high-
temperature instruments; impregnating oil for sintered
bronze bearings in small electric motors and other
mechanisms exposed to high ambient temperatures and/or
weathering.

As a heat transfer fluid - heat exchange fluid for research
apparatus and instrument calibration baths.

As a thermostat fluid - suitable to use over a temperature
range of -40' to 315°C (-40' to 600°F). The system should
be meticulously clean.

Typical Properties	Typical Values	CTM
Color, APHA	40	5
Viscosity @ 25°C (77°F)	125	747
Specific Gravity @ 25°C (77°F)	1.07	0001A
Viscosity/Temperature Coefficient	0.76	247
Flash Point, °C (°F), minimum	308 (586)	6
Fire Point, estimated, °C (°F)	>343 (>650)	
Volatile Content, % by weight after 4 hrs @ 260°C (482°F)	1.2	208

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