

Silicone Transformer Fluid

Polydimethylsiloxane transformer fluid, 50 cSt

PRODUCT CODE	CAS NO.	ISSUED
RS-STO 50	63148-62-9	July 2026

§1 PRODUCT DESCRIPTION

A 50 cSt polydimethylsiloxane dielectric fluid supplied for transformer and electrical-insulation service.

§2 TYPICAL PROPERTIES

PROPERTY	SPECIFICATION	TYPICAL VALUE
Appearance	—	Crystal Clear Liquid
Density at 25 °C	—	0.96 g/cm ³
Viscosity at 25 °C	—	50 cP
Water Content	—	< 50 ppm
Specific heat	—	1.51 kJ/(kg·K)
Thermal conductivity	—	0.151 W/(m·K)
Refractive Index at 25 °C	—	1.404
Breakdown voltage	—	50 kV
Permittivity at 25 °C	—	2.5
Dissipation factor at 25 °C	—	0.0001
Volume Resistivity at 25 °C	—	1.0 × 10 ¹⁴ Ω·cm
Flash Point open cup	—	300 °C
Fire Point open cup	—	> 340 °C
Pour Point	—	< -50 °C
Neutralization Value	—	< 0.01 mg KOH/g
Dielectric Dissipation factor	—	< 0.001
DC Resistivity	—	Above 100 GΩ·m

PACKAGING

Standard industrial packaging; drum, IBC, or bulk options quoted per order.

DOCUMENTATION

Full SDS available on request. Lot-specific CoA ships with every order.

Values shown are typical of recent production and do not constitute a sales specification; the lot-specific Certificate of Analysis governs for any shipment. Product is supplied for industrial use only.

Typical batch values, provided in good faith. Contact solutions@rawsource.com for batch-specific data.