

LK-SIL 100Ts are clear, white, inert and odourless dimethyl polysiloxane fluids. The actual viscosity is controlled within $\pm 5\%$ of the desired viscosity. These fluids are manufactured in the viscosity range from 20 cps to 300000 cps. ISOL also has B.P. Grade Dimethicone in the viscosity range of 50 cps to 1000 cps. Intermediate viscosity grades are also available upon request.

In chemical structure Dimethyl silicone fluids are quite different from other fluids having a backbone of silicon-oxygen linkage. The advantage of this is a linkage much stronger than a typical carbon-carbon chain and is more resistant to attack by temperature extremes, oxidation, shear stresses and chemicals than other similar organic fluids and also show good dielectric properties. LK-SIL 100T Silicone fluids are soluble in hydrocarbon solvents,

chlorinated hydrocarbon solvents and low molecular weight aromatic solvents. They have limited solubility in alcohols, ethers, acetone and glycols (Solubility here depending on viscosity)

PACKING

General packing is in 1000 kgs HDPE Totes and 200 kgs epoxy coated MS drums. Smaller quantities of 30 kg and 50 kg are available upon request in HDPE carboys.

LIMITATIONS

These products are neither tested nor represented as suitable for medical or pharmaceutical uses.

SHELF LIFE

24 months in the original container.

PRODUCT CHART¹							
	LK-SIL (20)	LK-SIL (100)	LK-SIL (350)	LK-SIL (1000)	LK-SIL (12500)	LK-SIL (60000)	LK-SIL (300000)
Specifications							
1 Appearance, Clarity and Odour	Colourless, Clear and Odourless Fluid						
2 Nominal Viscosity at 25 °C (cps)	20	100	350	1000	12500	60000	300000
3 Volatile Weight loss for 20 min. at 200 °C (%)	<5	<0.5	<0.5	<0.5	<2	<2	<2
4 Acid Number	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
5 Specific Gravity at 25 °C	0.940	0.965	0.973	0.974	0.975	0.977	0.979
6 Refractive Index at 25 °C	1.405	1.405	1.405	1.405	1.405	1.405	1.405
7 Flash Point Open Cup (°C)	≥190	≥240	≥260	≥260	≥260	≥260	≥260
General Properties							
8 Surface Tension at 5 °C (dynes/cm)	21.4	21.9	21.3	21.3	21.3	21.3	21.3
9 Thermal Expansion (cc/cc °C)	.000925	.000925	.000925	.000925	.000925	.000925	.000925
10 Pour Point (°C)	-67	-67	-58	-58	-53	-47	-30
11 Viscosity Temperature Co-eff	0.58	0.59	0.60	0.60	0.60	0.60	0.60
12 Specific Heat (kcal/kg-m)	0.66	0.66	0.66	0.66	0.66	0.66	0.66
13 Dielectric Strength (kV/mm)	12	13	13	13	13	13	13
14 Dielectric Constant	2.7	2.7	2.7	2.7	2.7	2.7	2.7

¹ Typical Values – Should not be considered as specifications.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

The information herein is believed to be reliable, but it is the user's responsibility to determine suitability of use, since we cannot know conditions of use. We make no warranties and assume no liability concerning use of the information. Nothing herein should be taken as inducement to infringe any patent.