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SILICONE PRODUCTS -EMULSIONS AND FLUIDS-

SILICONE FLUIDS DF55 SERIES*

PRODUCT DESCRIPTION:

The DF55 series of silicone fluids are 100% crystal clear dimethylpolysiloxane polymers with a viscosity range of 50 - 60,000 centistokes. Their outstanding characteristics are that of inertness, heat stability, oxidation stability, good electrical properties, low pour point and nontoxicity. Some of the general applications are as release and slip agents, additives in rubber and plastics for special surface properties and water repellent treatments.

TYPICAL PROPERTIES:

DIMETHYL GRADE	VISCOSITY CENTISTOKES (25°C)	SPECIFIC GRAVITY (25°C)	FLASH POINT °F (p-m open)¹	VOLATILITY MAX (% wt.loss)	REFRACTIVE INDEX (25°C)
DF55 50	50	0.953	588	0.5	1.402
DF55 100	100	0.968	604	0.5	1.4030
DF55 200	200	0.973	637	0.5	1.4032
DF55 350 (DF-56 FG) ³	350	0.973	637	0.5	1.4032
DF55 500	500	0.973	662	0.5	1.4033
DF55 1,000	1,000	0.974	658	0.5	1.4035
DF55 5,000	5,000	0.975	500 ²	2.0	1.4035
DF55 10,000	10,000	0.975	601	2.0	1.4035
DF55 12,500	12,500	0.975	500 ²	2.0	1.4035
DF55 30,000	30,000	0.976	601	2.0	1.4035
DF55 60,000	60,000	0.977	601	2.0	1.4035

¹ pensky-martens open cup ² closed cup ³ FG denotes food grade

APPLICATIONS:

Silicone fluids are preferred over silicone emulsions where mold build up cannot be tolerated. Silicone fluids are normally cut for spray applications with non-polar solvents. The advantages of this are: less mold build up from emulsifiers used in silicone emulsions, provides rapid flash off on hot surfaces and the silicone can be used on molds where the flash temperature of water is higher than that of the mold surface.

Silicone Fluids are suggested as good general purpose release agents for most tire and mechanical goods operations such as: tire molds and curing bags, shock mounts, fan belts, "O" rings, floor mats, hose, toys, shoe heels and soles, floor tile, rubber runners, bath mats, etc. Some wire and cable applications include easy stripping of insulation from wire, braiding of silver-plated or tin-coated wire and lead sheath removal.

SAFETY AND HANDLING:

Polydimethylsiloxane fluids show excellent storage stability if stored in cool area (40-80°F) in tightly closed containers, free from any moisture.

* DF55 Silicone Fluids are products of Silchem

jh 0199, t-silicone fluids

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