

## SILICONE PRODUCTS SILICONE FLUIDS

ProSil SF series of PDMS Fluids (PolyDiMethylSiloxan)



### DESCRIPTION:

The ProSil SF series of silicone fluids are 100% crystal clear polydimethylsiloxane polymers with a viscosity range of 0,65 - 1.000.000 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:

ProSil

DIMETHYL GRADE ( 25°C )	VISCOSITY CENTISTOKES	SPECIFIC GRAVITY ( 25°C )	FLASH POINT °C ( p-m open )	Pour Point °C	VOLATILITY MAX (% wt. loss)	REFRACTIVE INDEX ( 25°C )
SF 0,65	0,65	0,76	÷4	÷67		1.382
SF 2	2	0,872	80	÷84		1.390
SF 5	5	0,910	136	÷65		1.397
SF 10	10	0,930	162	÷65		1.399
SF 20	20	0,950	230	÷60		1.400
SF 50	50	0.953	280	÷55	0.5	1.402
SF 100	100	0.968	>300	÷55	0.5	1.4030
SF 200	200	0.970	>300	÷52	0.5	1.4032
SF 350	350	0.973	>300	÷50	0.5	1.4032
SF 500	500	0,973	-	÷50	0.5	1.4033
SF 1,000	1,000	0.974	-	÷50	0.5	1.4035
SF 5,000	5,000	0.975	-	÷45	2.0	1.4035
SF 10,000	10,000	0.975	-	-	2.0	1.4035
SF 12,500	12,500	0.975	-	--	2.0	1.4035
SF 30,000	30,000	0.976	-	-	2.0	1.4035
SF 60,000	60,000	0.977	-	-	2.0	1.4035
SF 300.000	300.000	0.990	-	-	2.0	1,4035
SF 1.000.000	1.000.000	0,99	-	-	2.0	1.4035

Fluids within same decade can be mixed to obtain viscosities between the ones mention above.  
Ask for our blending sceme.

### APPLICATIONS:

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

Silicone Fluids are suggested as good general purpose release agents for most tire and mechanical goods operations such as: tire moulds 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.



2009-01-10 Steen Qvist