



## Properties of Down-Hole Silicone Fluids: 0.65cSt to 20 million cSt.

Product Code	Viscosity cSt	Viscosity Temp. Coefficient	Pour point °C	Flash Point °C	Specific Gravity	Refractive Index	Specific heat@ 25°C Cal/g°C	Coeff. of Thermal Expansion cc/cc°C, 0-150°C	Thermal Conductivity @ 25°C g /cal/cm/sec °C	Maximum Volatility, % wt. Loss, 24 hours @ 150°C	Surface Tension	Dielectric Constant 50Hz	Dielectric Strength Volts/mil	Dielectric loss tangent 50Hz Dissipation factor	Boiling Point	Molecular Weight
<b>Low Viscosities</b>																
PSF-0.65cSt	.65	0.31	-68	-1	.761	1.3750	0.410	0.00134	0.00024	100%	15.9	2.20	300	0.0001	100°C	162
PSF-1cSt	1.0	0.37	-85	39	.818	1.3825	0.410	0.00134	0.00024	100%	17.4	2.30	350	0.0001	151°C	237
PSF-1.5cSt	1.5	0.46	-90	63	.853	1.3880	0.410	0.00134	0.00025	100%	18.0	2.39	350	0.0001	194°C	340
PSF-2cSt	2.0	0.48	-100	75	.873	1.3900	0.410	0.00117	0.00026	100%	18.7	2.45	350	0.0001	229°C	410
PSF-3cSt	3.0	0.51	-70	100	.898	1.3935	0.39	0.00114	0.00027	100%	19.2	2.50	350	0.0001	>200°C	550
PSF-5cSt	5.0	0.54	-90	135	.918	1.3970	0.39	0.00109	0.00028	90%	19.7	2.60	375	0.0001	>200°C	770
PSF-10cSt	10	0.56	-70	163	.935	1.3990	0.36	0.00108	0.00032	15%	20.1	2.68	375	0.0001	>200°C	1,250
PSF-20cSt	20	0.59	-65	232	.950	1.4000	0.36	0.00107	0.00034	10%	20.6	2.72	375	0.0001	>230°C	2,000
<b>Standard Viscosities</b>																
PSF-50cSt	50	0.59	-55	285	.960	1.402	0.36	0.00106	0.00036	0.5%	20.8	2.75	400	0.0001	>250°C	3,780
PSF-100cSt	100	0.60	-55	315	.966	1.4030	0.36	0.00096	0.00037	0.5%	20.9	2.75	400	0.0001	>250°C	5,970
PSF-200cSt	200	0.60	-50	315	.968	1.4031	0.36	0.00096	0.00037	0.5%	21.0	2.75	400	0.0001	>250°C	9,430
PSF-350cSt	350	0.60	-50	315	.970	1.4032	0.36	0.00096	0.00037	0.5%	21.1	2.75	400	0.0001	>250°C	13,650
PSF-500cSt	500	0.60	-50	315	.971	1.4033	0.36	0.00096	0.00038	0.5%	21.1	2.75	400	0.0001	>250°C	17,250
PSF-1,000cSt	1,000	0.61	-50	315	.971	1.4035	0.36	0.00096	0.00038	0.5%	21.2	2.75	400	0.0001	>250°C	28,000
<b>Hi-Viscosities</b>																
PSF-5,000cSt	5,000	0.61	-50	315	.975	1.4035	0.36	0.00096	0.00038	2%	21.3	2.75	400	0.0001	>250°C	49,350
PSF-10,000cSt	10,000	0.61	-48	315	.975	1.4035	0.36	0.00096	0.00038	2%	21.5	2.75	400	0.0001	>250°C	62,700
PSF-12,500cSt	12,500	0.61	-46	315	.975	1.4035	0.36	0.00096	0.00038	2%	21.5	2.75	400	0.0001	>250°C	67,700
PSF-30,000cSt	30,000	0.61	-42	315	.976	1.4035	0.36	0.00096	0.00038	2%	21.3	2.75	400	0.0001	>250°C	91,700
PSF-60,000cSt	60,000	0.61	-42	315	.976	1.4035	0.36	0.00096	0.00038	2%	21.3	2.75	400	0.0001	>250°C	116,500
PSF-100,000cSt	100,000	0.61	-41	321	.977	1.4035	0.36	0.00094	0.00038	2%	21.5	2.75	400	0.0001	>250°C	139,000
PSF-300,000cSt	300,000	0.61	-41	321	.977	1.4035	0.36	0.00092	0.00038		21.5	2.75	400	0.0001	>250°C	204,000
PSF-600,000cSt	600,000	0.61	-41	321	.978	1.4035	0.36	0.00092	0.00038		21.6	2.75	400	0.0001	>250°C	260,000
PSF-1,000,000cSt	1,000,000	0.62	-39	321	.978	1.4035	0.36	0.00092	0.00038		21.6	2.75	400	0.0001	>250°C	308,000
PSF-2,500,000cSt	2,500,000	0.62	-38	321	.978	1.4035	0.36	0.00092	0.00038		21.6	2.75	400	0.0001	>250°C	423,000
PSF-20,000,000cSt	20,000,000	0.62	-35	321	.979	1.4035	0.36	0.00092	0.00038		21.6	2.75	400	0.0001	>250°C	>500,000