

SARCON[®] Thermally Conductive Greases

Sarcon[®] SG-07SL and SG-26SL are highly thermally conductive, non-reactive silicone-based greases that offer low thermal resistance and maintain a non-flowable composition. Unique binding agents and product formulation ensure the lowest amount of bleed and evaporation. Suited for thin bond line applications.

Sarcon[®] SG-07NS, SG-26NS and SG-42NS are non-silicone, polysynthetic-based thermal greases that have high thermal conductivity properties. Infused with heat-conductive metal oxides, this non-migrating material operates consistently in high temperatures. Sarcon[®] non-silicone greases offer all the benefits of a silicone-based compound without the problem of contamination.



TYPICAL PROPERTIES:

	Unit	SG 07SL	SG 26SL	SG 07NS	SG 26NS	SG 42NS
Type	–	Silicone	Silicone	Non-Silicone	Non-Silicone	Non-Silicone
Specific Gravity, @ 25°C	–	2.2	2.2	2.4	2.2	2.4
Viscosity*	Cps	160,000	406,000	250,000	480,000	502,000
Flow Rate**	grams/minute	95	6	75	8	6
Color	–	White	Gray	White	Gray	Gray
Evaporation, @ 200°C, 24hrs.	%/Wt	0.52	0.44	0.68	0.5	0.46
Thermal Conductivity	W/m.°K	0.75	2.6	0.75	2.6	4.2
Volume Resistivity	Ohm-cm	2.1×10^{14}	2.8×10^{14}	1.4×10^{14}	2.1×10^{14}	1.8×10^{14}
Dielectric Strength	V/mil	386	412	314	392	219
Operating Temperature Range	°C	-55 to 205	-55 to 205	-55 to 200	-55 to 200	-55 to 200

*Viscosity Data: Brookfield HB- DV-II+ Pro/Helipath. ** Flow test: 30cc Syringe, 0.09" orifice at 25PSI/min. Speed: 50 RPM.

FEATURES:

- Silicone and non-silicone formulations
- Thermal conductivity up to 4.2 W/m°K
- Low bleed and evaporation
- No migration for non-silicone formulations over wide temperature range
- Non-toxic
- Thin bond lines 1 mil
- Easy to apply and re-work

APPLICATIONS:

- Standard dc/dc power converter and dc/ac inverter
- High performance CPUs
- Between any heat generating semiconductor and heat sink
- Custom power modules
- Telecommunications and automotive electronics

PACKAGING OPTIONS:

- Pre-filled syringes: 3cc (6g), 10cc (28g), 30cc (72g)
- Jar containers: 1 lb. (454g)
- Custom packaging: Available on request