

**SC102**

## HEAT-TRANSFER COMPOUND

SC102 heat-transfer compound is a grease like silicone material heavily filled with heat-conductive metal oxide.

SC102 heat-transfer compound is an improved product that can be used in touch with silicone JCR, where most of silicone heat-transfer compounds cause swelling of JCR. SC102 also shows excellent heat conductivity as well very little oil bleed. SC102 has rather high consistency and it is easy to handle and can be used in many appliances.

**Properties of SC102**

Properties	Unit	SC102
Consistency, penetration un-worked	--	300
Oil bleed (120°C / 24hrs)	%	0.00
Specific Gravity	--	2.45
Thermal Conductivity	Cal / cm • sec. C	0.0019
Arc Resistance	sec.	123
Dielectric Constant	60 Hz	4.6
	1000 Hz	4.4
Dissipation Factor	60 HZ	0.034
	1000 HZ	0.024
Volume Resistivity	ohm • cm	$4.8 \times 10^{14}$
Dielectric Strength	kV / 2.5mm	22

勝特力材料 886-3-5753170  
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### Properties of SC102 in comparison with SH340

Properties	SC102	SH340 <sup>*)</sup>
Swelling of Silicone JCR <sup>b)</sup>		
Volume increase	0.9%	3.0%
Oil bleed on alminum plate		
120°C / 24hrs	None	observed
Appearance after heating		
150°C / 24hrs	No change	No change

a) Conventional silicone heat-transfer compound

b) Cured silicone JCR (SH6101) was immersed in heat-transfer compound at 120°C for 120hrs.

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**IMPORTANT NOTICE** Dow Corning Toray Silicone neither represents nor tests this material for medical device applications or for pharmaceutical end-use. **NOT FOR HUMAN INJECTION!**

This product is made to industrial grade standards. It is not intended for nor should it be used in medical device applications and pharmaceutical end-use.