

## Highly Thermally Conductive RTV

Product Code: TCR / TCRGUNB

### PRODUCT DESCRIPTION

**Electrolube TCR** is a one component, low odour, high strength RTV with a very high degree of thermal conductivity. It is a 100% solids material (solvent free) with a very wide temperature range making it ideal for a wide range of uses particularly engineering applications where its non-corrosive properties are of critical importance. **Electrolube TCR** combines the properties of silicone rubber pads with those of a conventional heat transfer paste, and can be used as a low bond strength adhesive, sealant or gasketing compound.

**Electrolube TCR GUN** is a dispensing method for use with TCR75S. The product fits inside the dispensing unit; a trigger is pulled which forces out the product. This is a very easy and accurate dispensing method for TCR75S.

### PRODUCT USE

**Electrolube TCR** is applied between components that may overheat and heat sinks to ensure rapid heat transfer. The high bond strength allows use prior to soldering for SM components.

### FEATURES

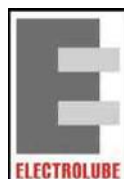
- \* Maximum continuous operating temperature = 200°C, Peak = 250°C
- \* Excellent thermal conductivity, 1.79 W/m.K
- \* Good electrical insulation characteristics.
- \* Components operate at thermal equilibrium thus ensuring uniform performance throughout the temperature range.
- \* Remains flexible and elastic at high temperatures.

TECHNICAL  
DATA  
SHEET



**Copyright  
Electrolube  
2003**

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.



## Highly Thermally Conductive RTV – Page 2

### APPLICATION

Surfaces must be clean and dry and free from grease, dust and contaminants - use **Electrolube Ultrasolve (ULS)** for this application. Ensure that solvents have completely evaporated before application. **TCR** is a moisture curing system. Therefore relative humidities above 50% are preferred for curing. The use of elevated temperatures will not increase the speed of cure and are not recommended.

### TYPICAL PROPERTIES

Colour:	White
Viscosity:	Non Slump Paste
Thermal Conductivity:	1.79 W/m.K
Tensile Strength:	2MPa
Elongation:	300%
Temperature Range :	-50°C to 250°C (Short Term), 200°C Continuous
Specific Gravity:	2.3
Skin forming rate:	5 - 20 minutes
Dielectric Strength:	>8 kV/mm
Volume Resistivity:	1 x 10 <sup>14</sup> Ohms-cm
Cure time (Hours@20°C	24
/ Minutes@100°C):	

### PACKAGING

75ml Syringe  
Dispensing Gun for 75ml Syringe  
310ml Cartridge, 700G

NATO Stock no: 8030-99-842-0038

### ORDER CODE

TCR75S  
TCRGUNB  
TCR700G

TECHNICAL  
DATA  
SHEET



### **Copyright Electrolube 2003**

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

