

## **Deep-Space Liquid Metal™ Heat Sink Thermal Compound 79 W/mK 20g/3cc Syringe**

### Product Highlights

- **Lead-Free / RoHS 3 Compliant / REACH Compliant**
- **Deep-Space Liquid Metal™**, non-curing, flowable, thermally conductive heat sink compound
- Pure Liquid Metal
- Provides extremely high thermal conductivity of 79 W/mK, low bleed and high temperature stability
- Electrically Conducting
- **Alloy contains Gallium and is not compatible with Aluminum Heat Sinks**



### Specifications

Alloy:	100% <b>Deep-Space Liquid Metal™</b> Pure Metal Proprietary Formula
Heat Sink Material Compatibility:	Nickel-Plated Copper, Nickel, Copper*
<b>Heat Sink Material Incompatibility:</b>	<b>Aluminum (Do Not Use with Aluminum Heat Sinks)</b>
Density:	6.8 g/cc
Thermal Conductivity:	79 W/m-K
Thermal Resistance:	0.003 °C*cm²/W
Operating Temperature (Continuous):	-40 to 150°C (-40 to 302°F)
Operating Temperature (Peak):	200°C (392°F)
Size:	20g/3cc Manual Syringe w/ 2x 25-gauge tips, squeegee

\*Gallium is known to alloy with various other metals. TC4 should be tested in your individual application to ensure long term reliability.

### Application Instructions

Apply sparingly with provided tips. Thinly spread using provided squeegee. Deep-Space Liquid Metal™ is highly conductive and is designed to fill all small cracks and crevices in surfaces to achieve extremely high thermal conductivity. Deep-Space Liquid Metal™ is thermally and electrically conductive, avoid getting it on electrical pins/pads/traces/BGA balls.

### Storage and Handling

Store at room temperature 20-25°C (68-77°F).

### Shelf Life

>60 months

### Transportation

This product has no shipping restrictions. Shipping below 0°C (32°F) or above 25°C (77°F) for normal transit times by ground or air will not impact this product's stated shelf life.

Chip Quik® Thermal Paste Orderable Part Numbers

Thermal Conductivity (W/m·K)	Thermal Resistance (°C·cm <sup>2</sup> /W)	Density (g/cc)	Color	Package	Size (g)	Orderable Part Number
0.67	0.16	2.1	White	Syringe	10	TC1-10G
				Syringe	20	TC1-20G
				Jar	200	TC1-200G
4.3	0.06	2.5	Grey	Syringe	10	TC2-10G
				Syringe	20	TC2-20G
				Jar	50	TC2-50G
8.5	0.03	2.5	Grey	Syringe	1	TC3-1G
				Syringe	3.5	TC3-3.5G
				Syringe	10	TC3-10G
79	0.003	6.8	Silver	Syringe	1	TC4-1G
				Syringe	2	TC4-2G
				Syringe	5	TC4-5G
				Syringe	10	TC4-10G
				Syringe	20	TC4-20G