



# Technical Data Sheet

## HTCX Non-Silicone Heat Transfer Compound Xtra

### PRODUCT DESCRIPTION

Electrolube HTCX is an enhanced version of HTC featuring improved thermal conductivity, lower oil bleed, and lower evaporation weight loss. HTCX is recommended where the efficient and reliable thermal coupling of electrical and electronic components is required or between any surface where thermal conductivity or heat dissipation is important. It should be applied to the base and mounting studs of diodes, transistors, thyristors, heat sinks, silicone rectifiers and semi-conductors, thermostats, power resistors and radiators.

HTCX contains no silicones and thus cannot migrate onto electrical contacts with consequent high contact resistance, arcing or mechanical wear. Similarly soldering problems caused by silicones will not be encountered.

A non silicone product is essential for applications where the use of silicone in any product is prohibited or where the specification set by the company states this.

A full range of heat transfer products are available from Electrolube. This range includes silicone based pastes for very high temperature applications (HTS), a RTV rubber (TCOR), an adhesive epoxy (TBS) and an epoxy based potting resin (ER2074).

### FEATURES

- Improved thermal conductivity
- Very low oil bleed
- Very low evaporation weight loss
- Excellent non-creep characteristics
- Wide operating temperature range
- Excellent thermal conductivity even at high temperatures
- Easy to handle
- Economic in use
- Low in toxicity
- White colour enables treated parts to be easily identified

<b>Approvals:</b>	<b>RoHS Compliant</b>	<b>Yes</b>
<b>Typical Properties:</b>	Colour: Base Thermo-conductive Component: Thermal Conductivity (Guarded Hot Plate): Thermal Conductivity (Heat Flow): Density @ 20°C: Temperature Range: Weight Loss after 168 hours @ 150°C: Permittivity @ 106Hz:	White Blend of synthetic fluids Powdered metal oxides 1.35 W/m•K (calculated) 0.90 W/m•K 2.61 g/cm <sup>3</sup> -50°C to +130°C 0.40% 4.2

**Typical Properties:**

Specific Resistance:  
Dielectric Strength:  
Penetration:

$1 \times 10^{14}$  Ohms/cm  
42 kV/mm  
210-250

<u>Description</u>	<u>Packaging</u>	<u>Order Code</u>	<u>Shelf Life</u>
<u>HTCX Paste</u>	35 ml Luer Lock Syringe	HTCX35SL	48 months
	1 Kg Bulk	HTCX01K	48 months

**Other packaging sizes for HTCX may be available upon request**

**The Electrolube Heat Transfer Compound Range in Brief**

	2ml Syringe	10ml Syringe	20ml Syringe	35ml Syringe (Luer Lock)	50ml Tube	700g Cartridge	1Kg Bulk	25Kg Bulk	200ml Aerosol
HTC	✓	✓	✓	✓		✓	✓	✓	✓
HTCX				✓			✓		
HTCP			✓			✓	✓	✓	
HTS	✓	✓	✓	✓			✓	✓	
HTSP					✓		✓	✓	

**Directions for Use**

Apply a thin film, to the base and mounting studs of many component types including diodes, transistors, thyristors, heatsinks, silicone rectifiers, semiconductors, thermostats, power resistors and radiators.  
Heat transfer compounds can be applied using a variety of methods including, screen printing, spray (HTCA), brushing and by the use of a roller.

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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.