



LEADER IN THERMAL MANAGEMENT: DESIGN, INNOVATION AND MATERIALS

CHO-THERM® 1646 Non-Insulating Interface Material

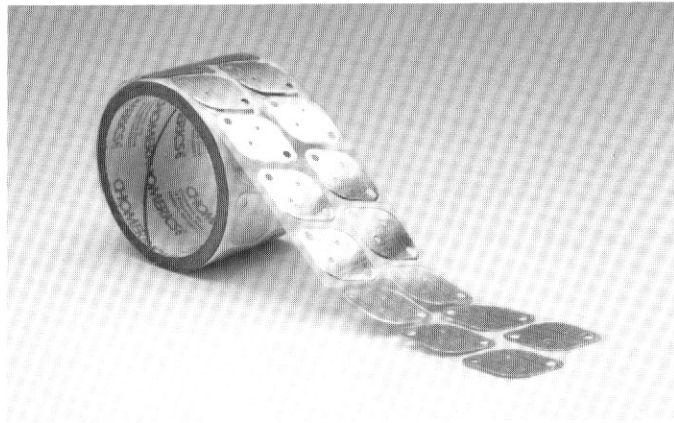
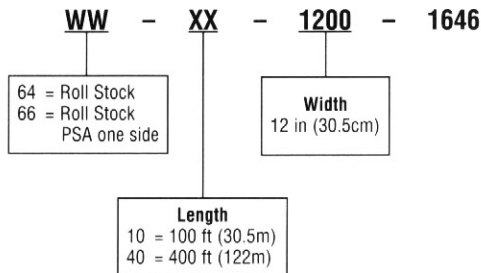
CHO-THERM® 1646 pads offer the best available thermal performance, without the use of grease, in applications where electrical isolation is not required. The low thermal impedance of CHO-THERM 1646 materials approximates that of thermal grease.

One-component CHO-THERM 1646 pads eliminate the need for grease dispensing equipment or the labor-intensive application process. CHO-THERM 1646 materials consist of boron nitride-filled silicone coated on one side of .002 in (.05mm) aluminum foil. Acrylic pressure sensitive adhesive is on the other side of the foil.

CHO-THERM 1646 pads are available in continuous rolls

ORDERING INFORMATION

CHO-THERM 1646 material is available in 12 in. (30.5cm) x 100 ft. (30.5m) lengths. Use the diagram below to construct the appropriate part number.



Typical Properties	1646	Test Method
Binder	Silicone	-
Filler	Boron Nitride	-
Carrier	Aluminum	-
Color	White/Silver	-
Thermal Conductivity (W/m-K)	1.1	MIL-I-49456A
Thermal Impedance $\frac{^{\circ}\text{C}\cdot\text{in}^2}{\text{Watt}}$ ($\frac{^{\circ}\text{C}\cdot\text{cm}^2}{\text{Watt}}$)	.20 (1.29)	MIL-I-49456A
Thickness in (mm)	.005 (.13)	-
Tensile Strength psi (MPa)	5000 (34.5)	ASTM D412
Tear Strength lb/in (kN/m)	175 (30.6)	ASTM D624
Maximum Use Temperature (°C)	-60 to 175	-
UL Flammability Rating	94V-0	UL94
Peel Strength to Aluminum lb/in width (kN/m)	1.0 (.18)	ASTM D1876

Note: Pressure sensitive adhesive may increase thermal impedance by as much as 0.05°C-in²/W (.32°C-cm²/W). Contact Chomerics for further information.



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