

Sur-Cool[®] Thermal Interface Materials

by Sur-Seal

4 DIFFERENT PRODUCT TYPES IN A COMPREHENSIVE COLLECTION

Take the guesswork out of choosing the right thermal interface material with these simple, easy-to-use products. The Sur-Cool[®] line combines easy-to-use and reliable quality at the right price. With Sur-Cool[®], thermals are finally made easy!



SUR-COOL[®] SILICONE THERMAL GAP PADS

Our thermal gap pads come in a range of thicknesses and conductivities, provide excellent wet-out and offer low thermal resistance. They also come custom die-cut for an easy peel-and-place process during assembly.



SUR-COOL[®] THERMALLY CONDUCTIVE ELECTRICALLY INSULATING SHEETS

Get outstanding electrical insulation and heat transfer with our SFR Thermally Conductive Electrically Insulating Sheets. These thin fiberglass sheets are coated with silicone rubber, producing a thermally conductive, electrically insulating, durable product. Sur-Cool SFR comes in a range of thermal conductivity grades and can be custom cut, with or without adhesive backing.







SUR-COOL[®] THERMALLY CONDUCTIVE TAPE

Our double-sided and dual-purpose thermal tape provides excellent heat transfer along with reliable mechanical fastening. Constructed from thermally conductive, pressure-sensitive acrylic adhesive with a fiberglass carrier center, the resulting thermal interface material is cost-effective and highly adhesive across various substrates with both high and low surface energy.



SUR-COOL[®] PHASE CHANGE THERMAL INTERFACE MATERIAL

High-performance heat transfer with little to no clamping pressure. Sur-Cool's acrylic-based phase change material (PCM) softens between 45 to 50 °C, to a gel-like state. The result is exceptional wet-out, minimizing contact resistances between the two surfaces by filling microscopic airgaps. The combination of low contact resistance with extremely thin thermal bond line creates a thermal performance akin to thermal grease, but with the handling ease of a thermal gap pad.

FEATURES			WHEN TO USE		
 <p>SUR-COOL® SILICONE THERMAL GAP PADS</p>	<ul style="list-style-type: none"> • UL 94 V-0 Listed • Wide range of thermal conductivities available (1 to 8 W/m-k) • Wide range of thicknesses available (0.5mm up to 5.0mm) • Extremely soft and conformable, even under low pressure • Capable of spanning large gaps between heat sources and heat sinks • Electrically isolating properties • Available with and without an adhesive backing 	<ul style="list-style-type: none"> • Applications with larger air gaps • Applications with rough, uneven, or un-parallel surfaces • Applications with low or uneven clamping pressure between the two mating surfaces 			
 <p>SUR-COOL® THERMALLY CONDUCTIVE ELECTRICALLY INSULATING SHEETS</p>	<ul style="list-style-type: none"> • Electrically isolating properties • UL 94 V-0 Listed • 1 to 3 W/m-k • Thin construction • Puncture and damage resistant • Electrically isolating properties • Available with and without an adhesive backing 	<ul style="list-style-type: none"> • Applications requiring both electrical isolation and thermal conduction • Applications requiring an extremely thin thermal pad • Applications requiring an easy to re-position thermal interface material 			
 <p>SUR-COOL® THERMALLY CONDUCTIVE TAPE</p>	<ul style="list-style-type: none"> • Adhesive on both sides • Strong mechanical holding properties • 1.2 W/m-k thermal conductivity • Electrically isolating properties • Thin construction (0.010") • Puncture and damage resistant • Available as custom-cut parts with a release liner on both top and bottom, or as custom-width rolls of tape 	<ul style="list-style-type: none"> • Applications requiring both thermal conduction and mechanical fastening • Applications requiring an extremely thin thermal pad • Applications requiring a continuous roll of thermal tape 			
 <p>SUR-COOL® PHASE CHANGE THERMAL INTERFACE MATERIAL</p>	<ul style="list-style-type: none"> • 45 to 50° C phase change temperature • Thin construction • 3 W/m-k thermal conductivity • High performance under little to no pressure • Easy to die-cut and handle with peel-and-place assembly 	<ul style="list-style-type: none"> • Applications with little to no clamping force • Applications with thin air gaps • Applications requiring high thermal performance 			