



American Sealants, Inc.

"High Performance Silicones, Sealants, and Adhesives"

ASI CAC 104 Heat Sink Compound

PRODUCT DATA SHEET

OEM Industrial and Commercial Product

Features:

- High Performance, Non-curing Paste
- Ideal for a Wide Variety of Applications
- Thermally Conductive Grease
- Non Toxic, Non Melting
- Will Not Separate or Bleed
- Excellent Dielectric Properties
- Excellent Resistance to Water and Oxidation

Additional Benefits:

- High Thermal Resistivity
- Easy to Dispense and Work With at a Variety of Extreme Temperatures
- Withstands a Wide Range of High Heat and Extreme Cold

Description:

ASI CAC104 Heat Sink Compound is a non dripping, thermally conductive grease. ASI CAC104 greatly increases efficiency due to its high performance thermally conductive properties. It reduces thermal impedance of the air gap otherwise present between the mating surfaces of a semi-conductor and heat sink. ASI CAC104 has excellent thermal resistance of only 00.05C/W for a 0.001" film, with an area of one square inch. It will not harden, dry out, or melt at temperatures up to 200°C. ASI CAC104 is also used as a heat transfer material in highly efficient and detailed machinery and in the solar panel industry. ASI CAC104 greatly outperforms other heat sink compounds and can make a variety of applications more efficient.

Common Applications:

ASI CAC104 is an excellent thermally conductive grease for many Commercial and Industrial applications where a long-term, high performing product is required. Such applications include:

- OEM Applications
- Solar Panels
- Automotive Market
- Corrosion Protection for Copper Conductors, Battery Terminals and Device Leads
- Maintenance
- Electronic Devices
- General Industrial Applications
- Disconnect Junctions in Electrical Wiring Systems
- Moisture Proof Sealing
- Industrial Applications
- Etc. (Can be used for various applications depending upon substrate)

Directions:

ASI CAC 104 Heat Sink Compound can be easily applied by dispensing, brushing, or wiping. ASI CAC104 can then be tooled and manipulated per applications requirements. ASI CAC104 can be applied in various ways depending upon your preference of packaging.

Safety Precautions:

ASI CAC104 has not been known to produce any lasting harmful effects. Contact with the eyes may cause transitory irritation which usually disappears in a few hours. If contact with the eyes occurs, flushing them with water will relieve and reduce the discomfort.



Listed Properties:

Appearance	Opaque White
Specific Gravity	2.45 x 25°C, 20.4 #/gallon
Volume Resistivity	2.0 x 10 (15) ohm/cm
Dielectric Strength	450 volts/mil
Thermal Conductivity	.00177 gm cal/sec cm@1C/cm (5.1 BTU/hr ft. (20) F/in)
Thermal Resistivity(p)	56°C in/watt
Bleed, percent	0.0 after 24 hrs. at 200°C
Evaporation, percent	0.5 after 24 hours at 200°C
Press Flow, .105 Orifice	13 sec ± 2 at 42.5 psi, 25°C
Worked Penetration	260-340, 60 Strokes

Packaging:

ASI CAC104 Silicone Compound is supplied in:
(4 fl. oz.) jars, (10.2 fl. oz.) cartridges,
(60 lb.) pail and (600 lb.) drum.

Special Packaging Available upon requests.

Information on this data sheet can change without notice and it is therefore not recommended that these figures be used in spec writing. If you have any questions contact manufacturer.

Storage:

ASI CAC104, when stored in original, unopened container at or below 32°C (90°F), has a shelf life of 12 months from date of shipment.

Warranty Limitations:

ASI warrants only that its products will meet its specifications. ASI shall in no event be liable for incidental or consequential damages. Except as expressly stipulated, ASI's liability, expressed or implied is limited to the stated selling price of any defective goods.