

Aremco's Heat-Away™ greases are ceramic and metal-filled systems that offer exceptional electrical and thermal properties up to 550 °F (288 °C). These materials are used in high power electronics, heat pipes, high vacuum systems, and other heat management applications.

PRODUCT HIGHLIGHTS

Part Number	Filler	Conductivity		Temp. Range °F (°C)
		Electrical	Thermal	
637	Alumina		✓	550 (288)
638	Aluminum Nitride		✓	550 (288)
639	Aluminum		✓	550 (288)
640	Copper		✓	550 (288)
641	Silver	✓	✓	550 (288)



Heat-Away™ 639 coats process heater to improve thermal contact.

HEAT-AWAY™ THERMALLY CONDUCTIVE GREASES

Product Number	637	638	639 ¹	640 ¹	641
Filler	Alumina	Aluminum Nitride	Aluminum	Copper	Silver
Temperature Resistance, °F	-60 / +550	-60 / +550	-60 / +550	-60 / +550	-60 / +550
Temperature Resistance, °C	-51 / +288	-51 / +288	-51 / +288	-51 / +288	-51 / +288
Thermal Conductivity, W/m-K	0.475	2.23	3.04	4.68	5.58
Dielectric Strength, volts/mil	300	300	40	4	4
Volume Resistivity, ohms-cm ²	10 ¹⁴	10 ¹⁴	10 ⁴	10 ³	<0.0002
Vapor Pressure, Torr	≤1	≤1	≤1	≤1	≤1
Chemical Resistance	Excellent	Excellent	Excellent	Excellent	Excellent
Water Absorption	Nil	Nil	Nil	Nil	Nil
Solids, %	100	100	100	100	100
Specific Gravity, g/cc	2.42	2.27	1.35	1.33	3.90
Color	White	Gray	Aluminum	Copper	Silver

Reference Notes

¹ Caution: Exposure to voltages in excess of rated maximum may cause a permanent electrical leak path.

² Volume resistivity is measured < 0.002" thick after exposure to 500 °F.

Refer to Price List for complete order information.

Aremco Products makes no warranty express or implied concerning the use of this product.

The user assumes all risk of use or handling whether or not in accordance with directions or suggestions, or used singly or in combination with other products.