

Silver Plated Aluminum Conductive Elastomer

The following is a relative measurement of the resistance and shielding effectiveness properties for silver plated aluminum conductive elastomer, tested in accordance with the procedures and requirements outlined in United States military specification MIL-DTL-83528. The conductive particles of this gasket are treated to enhance galvanic compatibility when in contact with dissimilar metals.

Electrical Specifications	Tolerance	Test Method	Silver Plated Aluminum Elastomer (Ohm-cm)
Volume Resistivity	Maximum	MIL-DTL-83528 (PARA 4.6.11)	0.008
Shielding Effectiveness (Frequencies)	Minimum	MIL-DTL-83528	Silver Aluminum Elastomer (dB)
100 MHz (E-Field)	Minimum	MIL-DTL-83528	120
500 MHz (E-Field)	Minimum	MIL-DTL-83528	120
2 GHz (Plane Wave)	Minimum	MIL-DTL-83528	115
10 GHz (Plane Wave)	Minimum	MIL-DTL-83528	115

Properties (General Specifications for Silver Plated Aluminum Elastomer)					
Hardness (Shore A)	Tensile (psi)	Elongation (min. – max.)	Tear (lb./in)	Volume Resistivity (ohm-cm)	Specific Gravity (g/cc)
65	200	100 - 300	30	0.008	2.0

This material adheres to the MIL-DTL 83528 specification.

Application: The surface that this material is to be applied to must be conductive, meaning no non-conductive paint, oils, or coatings. If a non-conductive surface is present on the mating or mounting surface the conductive elastomer, shielding effectiveness will be greatly degraded.

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