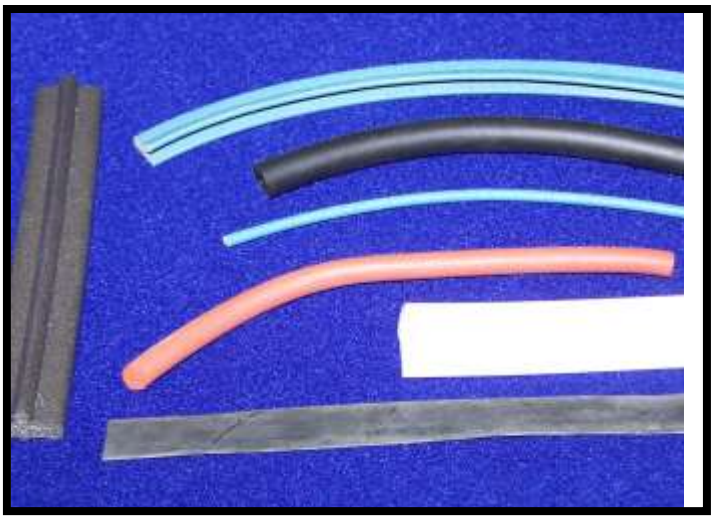
Conductive Fluorosilicone Elastomer (5000 Series)

Product Summary

This conductive fluorosilicone elastomer material is a unique composite of high quality fluorosilicone and conductive Silver Nickel (Ag/Ni) microscopic particles.

Product Application

This conductive elastomer is a unique composite of high quality fluorosilicone and conductive microscopic particles, manufactured to strict formulations, yielding a gasketing material that meets military MIL-DTL-83528 (Type L) and commercial electronic requirements. The fluorosilicone material is a synthetic rubber useful in applications involving petroleum oils, fuels, and silicone oils, with the same operating temperature as silicone.



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.

Contact MAJR Products Corporation for product configurations and part numbers.

Product Technical Data

Electrical Specifications	Tolerance	Test Method	Silver Aluminum fluorosilicone Elastomer (Ohm-cm)
Volume Resistivity	Maximum	MIL-DTL-83528 (PARA 4.6.11)	0.005
Shielding Effectiveness (Frequencies)	Minimum	MIL-DTL-83528 (PARA 4.5.12)	**Silver Aluminum Elastomer (Attenuation - dB)**
20 MHz (E-Field)	Minimum	(PARA 4.5.12)	100
500 MHz (E-Field)	Minimum	(PARA 4.5.12)	100
2 GHz (Plane Wave)	Minimum	(PARA 4.5.12)	100
10 GHz (Plane Wave)	Minimum	(PARA 4.5.12)	100

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Properties (General Specifications for Silver Aluminum Fluorosilicone Elastomer)					
Hardness (Shore A)	**Tensile (psi)**	**Elongation (min. – max.)**	**Tear (lb./in)**	**Operating Temperature Deg. C (min. to max.)**	**Specific Gravity (g/cc)**
75	200	100 - 300	30	-55 to +125	4.0

ISO-9001:2000 Certified - Veteran Owned Manufacturer

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