

**CEM-SA001 ELECTRICALLY CONDUCTIVE
SILVER COATED ALUMINIUM FILLED SILICONE ELASTOMER****Product overview**

CEM-SA001 is an electrically conductive composite material comprising of silicone elastomer and silver-plated aluminium particles. It is formulated for the production of sheet, flat gaskets and custom mouldings that offer a combined high level of EMI shielding and environmental sealing over a wide temperature range. The silicone elastomer base provides excellent resistance to environmental degradation.

CEM-SA001 also exhibits good galvanic (electro-chemical) stability when used in combination with aluminium alloys, particularly in humid or damp environments.

Cured Properties	
Colour	Light tan
Density	2.0gcm ⁻³
Hardness Range	30-80 Shore A Standard 65 Shore A
Volume resistivity	<0.008Ω.cm
Tensile strength	1.7MPa
Elongation (minimum before break)	100%
Compression set – 72 hours at 100°C	<25%
Service temperature range	-55°C to 160°C

**CEM-SA001 ELECTRICALLY CONDUCTIVE
SILVER COATED ALUMINIUM FILLED SILICONE ELASTOMER****Shielding Effectiveness**

200kHz (H field)	79dB
100MHz (E field)	105dB
500MHz (E field)	108dB
2GHz (Plane wave)	102dB
10GHz (Plane wave)	110dB

Available forms

This material is available as die cut flat gaskets, sheet, strips and custom moulded components. The equivalent material type is also available in the form of extruded sections (CEE-SA001). Gaskets and sheet material can be supplied with a self adhesive backing to assist installation / assembly.

Shielding Solutions Ltd
410 Avenue West
Skyline 120
Great Notley
Essex
CM77 7AA

Tel: 01376 330033
Fax:01376 339163
Web: www.shielding-solutions.com

SSL/TDS/107 ISS 1
21/08/2013