



TECHNICAL DATA SHEET

SHIELDING SOLUTIONS CEM-SN001 ELECTRICALLY CONDUCTIVE NICKEL FILLED SILICONE ELASTOMER

Product overview

CEE-SN001 is an electrically conductive composite material comprising of silicone elastomer and nickel particles. It is formulated for the production of extruded cross-sections and vulcanised 'o' rings 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 extremes of temperature and environmental ageing.

CEE-SN001 also exhibits good galvanic (electro-chemical) stability when used in combination with aluminium alloys, particularly in humid or damp environments.

Cured Properties

Colour	Dark grey
Density	4.5 gcm ⁻³
Hardness	70 Shore A
Volume resistivity	<0.2Ω.cm
Tensile strength	1.2MPa
Elongation	200%
Compression set – 72 hours at 100°C	20%
Service temperature range	-55°C to 150°C



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Shielding Effectiveness

10kHz (H field)	65dB
100kHz (H field)	70dB
1MHz (H field)	>100
20MHz (E field)	>100dB
100MHz (E field)	>110dB
400MHz (Plane wave)	>110dB
1GHz (Plane wave)	>100dB
10GHz (Plane wave)	>100dB

Available forms

The equivalent material type (CEM-SN001) is also available in the form of sheets, flat gaskets and custom moulded components. Gaskets and the sheet material can be supplied with a self adhesive backing to assist installation / assembly.



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