



TECHNICAL DATA SHEET

SHIELDING SOLUTIONS CEE-NC001 ELECTRICALLY CONDUCTIVE NICKEL COATED GRAPHITE FILLED SILICONE ELASTOMER

Product overview

CEE-NC001 is an electrically conductive composite material comprising of silicone elastomer and nickel coated graphite particles. It is formulated for the production of extruded sections/gaskets that offers 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 long term ageing.

CEE-NC001 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	2.0 gcm ⁻³
Hardness	60 Shore A
Volume resistivity	<0.1Ω.cm
Tensile strength	1.0MPa
Tear strength	7kN/m
Elongation	80%
Compression set – 72 hours at 100°C	30%
Service temperature range	-45°C to 150°C
Maximum intermittent temperature	200°C



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Shielding Effectiveness

200kHz (H field)	75dB
100MHz (E field)	>100dB
500MHz (E field)	>100dB
2GHz (Plane wave)	>100dB
10GHz (Plane wave)	>100dB

Available forms

This material is available in a wide range of solid and hollow profiles such as 'O' sections, 'D' sections, 'U' channels, etc. The equivalent material type (CEM-NC001) is also available as moulded components, sheets and flat gaskets. In either form gaskets or sheet material can be supplied with a self adhesive backing to assist installation / assembly.



Shielding Solutions Ltd
Unit 17
46 Springwood Drive
Braintree
Essex
CM7 2YN

Tel: 01376 330033

Fax: 01376 339163

Web: www.shielding-solutions.com