

CEE-FNC001 ELECTRICALLY CONDUCTIVE NICKEL COATED GRAPHITE FILLED SILICONE ELASTOMER**Product overview**

CEE-FNC001 is an electrically conductive composite material comprising of fluorosilicone elastomer and nickel coated graphite particles. It is formulated for the production of extruded sections/gaskets that offer a combined high level of EMI shielding and environmental sealing over a wide temperature range. The fluorosilicone elastomer base provides excellent resistance to fuels and oils.

CEE-FNC001 also exhibits good galvanic (electro-chemical) stability when used in combination with aluminium alloys, particularly in humid or damp environments.

Cured Properties

Colour	Dark green
Density	2.2 gcm ⁻³
Hardness Range	30-80 Shore A Standard 65 Shore A
Volume resistivity	<0.1Ω.cm
Tear strength	6kN/m
Tensile strength	1.0MPa
Elongation	150%
Compression set – 72 hours at 100°C	20%
Service temperature range	-55°C to 160°C
Maximum intermittent temperature	200°C

**CEE-FNC001 ELECTRICALLY CONDUCTIVE NICKEL COATED
GRAPHITE FILLED SILICONE ELASTOMER****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-FNC001) 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.

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