

CEE-NC002 FIRE RETARDANT ELECTRICALLY CONDUCTIVE NICKEL COATED GRAPHITE FILLED SILICONE ELASTOMER**Product overview**

CEE-NC002 is a fire retardant, 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-NC002 is UL94 V0 compliant and meets the requirements of BS 6853:1999 Incorporating amendment No1. Low smoke and low toxicity.

CEE-NC002 also exhibits good galvanic (electro-chemical) stability when used in combination with aluminium alloys, particularly in humid or damp environments.

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.

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Cured Properties	
Colour	Dark grey
Density	2.0 gcm ⁻³
Hardness	60 Shore A
Volume resistivity	<0.1Ω.cm
Tensile strength	1.8MPa
Tear strength	7kN/m
Elongation	300%
Compression set – 72 hours at 100°C	10%
Service temperature range	-55°C to 160°C
Maximum intermittent temperature	200°C
UL94 Flammability Rating	UL94 V0

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

**CEE-NC002 FIRE RETARDANT ELECTRICALLY CONDUCTIVE NICKEL
COATED GRAPHITE FILLED SILICONE ELASTOMER****Smoke and Toxicity Results**

Oxygen index to BS EN ISO 4589-2: 1999	Oxygen 41.6%
Smoke density to BS 6853:1999: Annex D.8.3	Average Ao (on) 0.00944
	Average Ao (off) 0.0104
NF X 70-100-1: 2006	Conventional index
NF X 70-100-2: 2006	of Toxicity (CIT) 8.19

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