

**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 <sup>-3</sup>
Hardness Range	30-80 Shore A Standard 60 Shore A
Volume resistivity	<0.1Ω.cm
Tear strength	7kN/m
Tensile strength	1.8MPa
Elongation	300%
Compression set – 72 hours at 100°C	10%
Service temperature range	-55°C to 160°C
Maximum intermittent temperature	200°C

**CEE-NC001 ELECTRICALLY CONDUCTIVE NICKEL COATED  
GRAPHITE FILLED SILICONE ELASTOMER**

<b>Shielding Effectiveness</b>	
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  
410 Avenue West  
Skyline 120  
Great Notley  
Essex  
CM77 7AA

Tel: 01376 330033  
Fax:01376 339163  
Web: [www.shielding-solutions.com](http://www.shielding-solutions.com)