

**CEE-N001 ELECTRICALLY CONDUCTIVE  
NICKEL FILLED SILICONE ELASTOMER****Product overview**

CEE-N001 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-N001 also exhibits good galvanic (electro-chemical) stability when used in combination with aluminium alloys, particularly in humid or damp environments.

<b>Cured Properties</b>	
Colour	Dark Grey
Density	4.5 gcm <sup>-3</sup>
Hardness Range	30-80 Shore A Standard 70 Shore A
Volume resistivity	<0.1Ω.cm
Tear strength	6kN/m
Tensile strength	1.2MPa
Elongation	200%
Compression set – 72 hours at 100°C	20%
Service temperature range	-55°C to 150°C
Maximum intermittent temperature	190°C

**CEE-N001 ELECTRICALLY CONDUCTIVE  
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200kHz (H field)	79dB
100MHz (E field)	>110dB
500MHz (E field)	>110dB
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-N001) 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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