



TECHNICAL DATA SHEET

SHIELDING SOLUTIONS CEM-FN001 ELECTRICALLY CONDUCTIVE NICKEL FILLED FLUROSILICONE ELASTOMER

Product overview

CEM-FN001 is an electrically conductive composite material comprising of fluorosilicone elastomer and nickel particles. It is formulated for the production of flat gaskets and custom mouldings 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. CEM-FN001 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	4.8 gcm ⁻³
Hardness	70 Shore A
Volume resistivity	<0.2Ω.cm
Tensile strength	1.2MPa
Elongation	200%
Compression set – 72 hours at 100°C	<40%
Service temperature range	-55°C to 160°C



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Shielding Effectiveness

200kHz (H field)	50dB
100MHz (E field)	100dB
500MHz (E field)	100dB
2GHz (Plane wave)	100dB
10GHz (Plane wave)	100dB

Available forms

This material is available as die cut flat gaskets, sheet, strips and custom moulded components. The equivalent material type is also available in the form of extruded sections (CEE-FN001). Gaskets and sheet material can be supplied with a self adhesive backing to assist installation / assembly.



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