



TECHNICAL DATA SHEET

SHIELDING SOLUTIONS CEM-FSA001 ELECTRICALLY CONDUCTIVE SILVER / ALUMINIUM FILLED FLUOROSILICONE ELASTOMER

Product overview

CEM-FSA001 is an electrically conductive composite material comprising of fluorosilicone elastomer and silver-plated aluminium 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-FSA001 also exhibits good galvanic (electro-chemical) stability when used in combination with aluminium alloys, particularly in humid or damp environments.

Cured Properties

| | |
|-------------------------------------|----------------------|
| Colour | Light green |
| Density | 2.1gcm ⁻³ |
| Hardness | 70 Shore A |
| Volume resistivity | <0.012Ω.cm |
| Tensile strength | 1.5MPa |
| Elongation | 100% |
| Compression set – 72 hours at 100°C | <25% |
| Service temperature range | -55°C to 160°C |



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Shielding Effectiveness

| | |
|--------------------|-------|
| 200kHz (H field) | 79dB |
| 100MHz (E field) | 105dB |
| 500MHz (E field) | 108dB |
| 2GHz (Plane wave) | 102dB |
| 10GHz (Plane wave) | 110dB |

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-FSA001). Gaskets and sheet material can be supplied with a self adhesive backing to assist installation / assembly.



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