NewMet

52-CSS-120

52-CSS-120 is a conductive solid silicone compound supplied in sheets of varying thicknesses. Sheet sizes are 250 x 250mm, 300 x 300mm and 450 x 520mm in some cases. Other thicknesses, sheet sizes and profile extrusions can be manufactured in a hardness range of 70-80 IRHD. For low cost with commercial performance, we offer a nickel plated graphite loaded polymer 52-CSS-116 or 52-CSS-114 which is carbon loaded.

These conductive sheets can be readily cut or stamped: gasket fabrication is by use of silicone conductive adhesive 53-CCC-240 which is silver aluminium loaded, or using a conductive pressure sensitive adhesive (CPSA).

Custom-moulded RFI/EMI seals and die-cut gaskets can be provided, together with extruded profiles of complex section using one of the four standard silicone compounds or using special formulations based on fluorosilicones developed for use with hydraulic fluids, petroleum or kerosene.

Applications	• *Gaskets* • *Seals* • *Shielding*
Product Features	• *Effective shielding* • *Potential for pressure sensitive adhesive*
Markets	• *Aerospace* • *Electronics* • *Industrial* • *Maritime* • *Military*

Typical properties

Product Property	Value	Test Method	Footnotes
Elastomer	*Silicone solid*		
Filler	*Silver plated aluminium*		
Colour	*Blue*		
Hardness (shore A)	*65*		
Specific gravity	*2.0*		
Tensile Strength (Mpa)	*1.2*		

Product Property	Value	Test Method	Footnotes
Elongation at break	*30% (min)*		
Temperature Range (°C)	*-55 to +160*		
Shielding Effectiveness	*115 dB (min)*		*100 MHz - 10 GHz*
Volume Resistivity (Ohm-cm)	*0.008*		

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