

Description

CE-NCS is an electrically conductive silicone based material loaded with nickel coated graphite particles. It is formulated specifically for the production of sheet, flat gaskets and custom mouldings aswell as extruded profiles. It offers a combined high level of EMI shielding and environmental sealing over a wide temperature range. The Silicone rubber provides optimum performance to the action of oxidizing agents, both under static and dynamic conditions and it offers excellent environmental sealing whilst providing optimum protection against galvanic corrosion in salt spray environments. It also has excellent resistance to aging from UV and weather conditions.

CE-NCS is designed and tested to meet the requirements outlined in ASTM E-595-07 for low outgassing applications.

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

ASTM E-595-07 Outgassing Properties

Total Mass Loss (%TML)	0.035
Collected Volatile Condensable Materials (%CVCN)	0.006
Water Vapour Regain (%WVR)	0.016

Technical Data

Colour	Dark Grey
Specific Gravity	2.0
Hardness	30-80 Shore A
Volume resistivity	<0.1Ω.cm
Tensile strength	1.0MPa
Elongation	80% Min 200% Max
Compression set – 72 hours at 100°C	<30%
Service temperature range	-60°C to 160°C
Max Intermittent Temp	220°C

Shielding Effectiveness

100kHz (H field)	120dB
100MHz (E field)	120dB
500MHz (E field)	120dB
2GHz (Plane wave)	120dB
10GHz (Plane wave)	115dB