



GF-NCP
NICKEL PLATED GRAPHITE LOADED
SILICONE FREE CAULK

Description

GF-NCP is a silicone free electrically conductive caulk / gap filling RTV polyether and nickel-plated graphite particles. It is designed for panel joints / seams and the small clearances at seams with mechanical fixings in sheet metal enclosures. It cures at room temperature to form a flexible joint that has excellent adhesion to most commonly used metals. When fully cured it will prevent water ingress and improve the EMI shielding performance of panel joints and overlaps.

Because of the polyether base, the material can be over-painted by a many paints. This allows for an improved cosmetic appearance on and protects against any possible corrosion.

GF-NCP has excellent high temperature resistance and long-term ageing characteristics. The nickel-graphite filler used in this material is very resistant to corrosion and has good galvanic compatibility with commonly used materials such as aluminium alloys and steel.

Availability

GF-NCP is supplied as standard in 310ml cartridges and can also be supplied in 6 fl.oz (170ml) and 2.5 fl.oz if Semco cartridges if required.

Technical Data

Colour	Dark Grey
Density	1.9 gcm ⁻³
Hardness	780 Shore A
Volume resistivity	<0.01Ω.cm
Adhesion	>200 Ncm ⁻²
Elongation	100%
Attenuation – 100MHz to 10GHz (MIL-STD 285)	70 – 110dB (typically)
Service temperature range	-40°C to 85°C

Storage

When not in use that the material is stored in a cool dark, dry place. For best storage conditions we would recommend some form of refrigerated storage such as a freezer. If kept properly sealed and in a suitable location, then the material should remain usable for up to 6 months.