

NOVAMET

Nickel Coated Graphite

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Nickel Coated Graphite is produced from a graphite powder that has been completely encapsulated with a layer of high purity nickel by the carbonyl decomposition process. Two versions are available, 60% and 75% nickel weight.

Applications

The combination of low density graphite with a layer of conductive nickel results in a lightweight filler ideally suited for conductive gaskets (extruded, molded, and sheet) and sealants. Other applications include: plasma spray, friction products and graphitic aluminium.

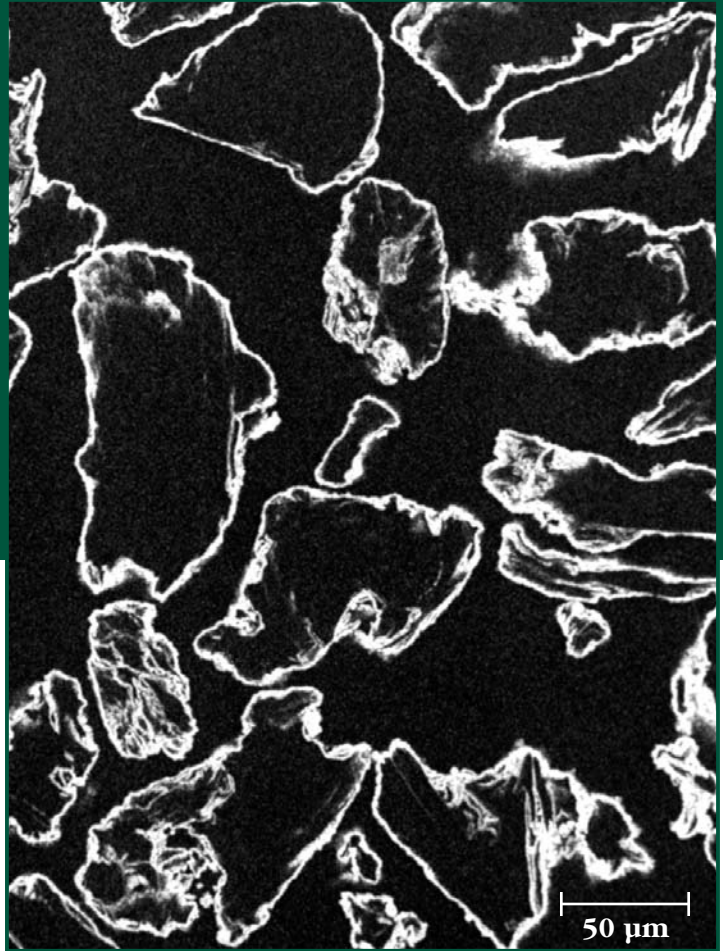
The Advantages of Nickel

Conductive fillers used in silicone gaskets range from carbon black to Nickel Coated Graphite to silver plated materials (AgAl, AgCu, AgNi and Ag Glass) to pure silver. Nickel Coated Graphite compares favorably to these competitive materials in the following three important areas:

Shielding Effectiveness: Nickel Coated Graphite is significantly better than carbon black, less effective than pure silver and comparable to silver coated materials. Published data shows the shielding effectiveness of Nickel Coated Graphite to be comparable to silver plated materials over a wide frequency range.

Galvanic Corrosion: Many enclosures requiring conductive gasket protection are aluminum. Silver and silver plated fillers can create a galvanic couple which promotes corrosion in outdoor applications. Nickel is compatible with aluminum enclosures

Price: Nickel Coated Graphite is three to four times less expensive than silver plated materials and much lower priced than pure silver.



Typical Properties of Nickel Coated Graphite

Screen Analysis

| | |
|---------|-----------------|
| 60% NCG | 95% - 100 + 250 |
| 75% NCG | 90% - 200 + 325 |

Apparent Density

| | |
|---------|------------------------------|
| 62% NCG | 1.4 to 1.5 g/cm ³ |
| 75% NCG | 1.7 to 1.9 g/cm ³ |

Packaging

| | |
|-----------------------|---------------|
| Size | Weight |
| 1 gal / 4 liter can | 11 lb / 5 kg |
| 5 gal / 20 liter pail | 55 lb / 25 kg |

Note: All containers are lined with a polyurethane bag.

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