

NOVAMET

525 Conductive Nickel Powder

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525 Conductive Nickel Powder is a high purity filamentary powder made from the thermal decomposition of nickel carbonyl. It is screened to remove large or agglomerated particles. Two versions are available, 525 and 525 low density.

Applications

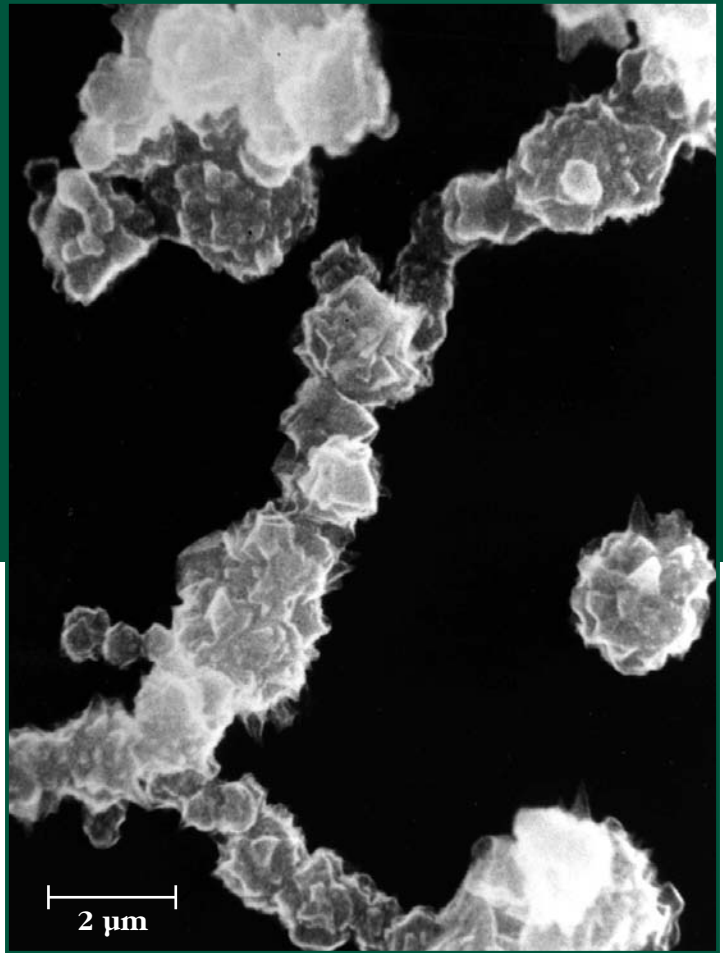
525 Nickel Powder is used in conductive coatings, adhesives and inks. The powder's excellent corrosion resistance, good conductive properties and unique filamentary shape make 525 Nickel Powder very effective in electromagnetic and radio frequency shielding products.

The Advantages of Nickel

The following properties make 525 Nickel Powder a good choice for Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) coatings:

- **Particle Morphology:** A branch-like structure increases the electrical conductivity in a coating since particle-to-particle contact points are maximized.
- **Chemical Properties:** Nickel is extremely resistant to oxidation and corrosion. It has advantages over other metals that form surface oxides over time which results in reduced conductivity.
- **Uniform Size Distribution:** The nickel carbonyl process produces a uniform size powder. An even more uniform distribution is obtained by screening to remove any large or agglomerated particles. The results are evident in the smooth finish and gray matte appearance.
- **Controlled apparent density.** Both versions are manufactured to achieve a consistent apparent density.
- **Nickel is magnetic.**

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Typical Properties of 525 Conductive Nickel Powder

Screen Analysis

525	100% - 400
525 Low Density	99% - 325

Apparent Density

525	1 g/cm ³
525 Low Density	.65 g/cm ³

Packaging

Size	Weight
1 gal / 4 liter can	11 lb / 5 kg
5 gal / 20 liter pail	55 lb / 25 kg
15 gal / 60 liter drum	220 lb / 100 kg

Note: All containers are lined with a polyurethane bag.

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