

CONDUCTIVE FILLERS / ADVANCED POWDERS

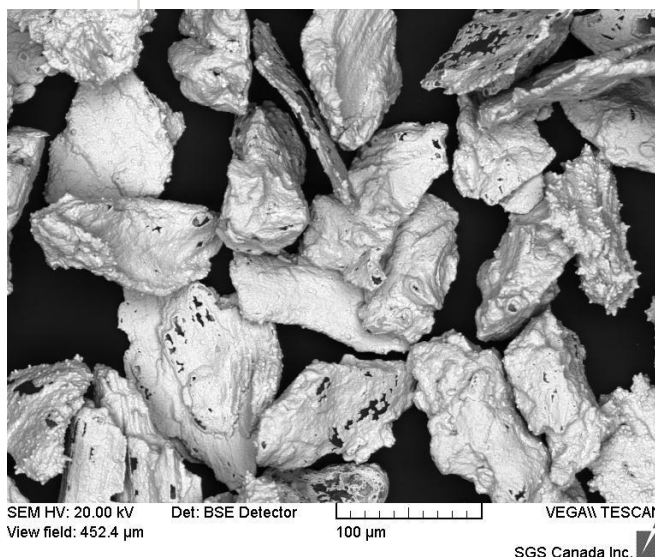
VNCG050 Fine Grade Vapour Nickel Coated Graphite

The only nickel coated graphite made by **Nickel Vapour Deposition (NVD)**

VNCG050 is the fine-particle variant of Weber's Vapour Nickel-Coated Graphite. It is purpose-engineered for form-in-place (FIP) dispensed gaskets, thin-film conductive mediums, and any specialized application where reduced particle size is mandatory without sacrificing volume resistivity or batch-to-batch repeatability.

THE NVD ADVANTAGE

- 1 **99.9% pure nickel:** encapsulated atom by atom, with no plating salts and no iron, sulphur or chloride residue.
- 2 **Continuous, closed shell:** minimal exposed graphite gives consistent, repeatable conductivity.
- 3 **Holds up in service:** no cracking or separation under compression, flexing or thermal cycling.



TYPICAL ANALYSIS

Product	Nickel (wt%)	D10 (µm)	D50 (µm)	D90 (µm)	Tap (g/cc)	Apparent (g/cc)	Vol. Res. (mΩ-cm)
VNCG050	57–63	35	50	80	1.8	1.2–1.5	<5

Volume resistivity measured in silicone rubber at 2:1 filler-to-rubber by weight. Particle size distribution measured on a Mastersizer 3000. A Certificate of Analysis with PSD, apparent density and nickel content is supplied with every batch.

TYPICAL APPLICATIONS

- Conductive adhesives and epoxies
- Electrical transfer tapes and films
- Precision conductive elastomers & sealants
- Automated Form-in-Place (FIP) dispensed gaskets
- High-definition EMI / RFI shielding compounds

QUALITY & CAPABILITIES

- » C of A with PSD, apparent density & nickel content every batch
- » Mastersizer 3000 sizing; RoTap screen analysis available
- » On-site tap density & volume resistivity testing
- » Custom R&D coating, incl. alternative & non-spherical substrates
- » Coats spherical and non-spherical substrates
- » MOQ 55 lb / 25 kg pails; 18 pails per pallet