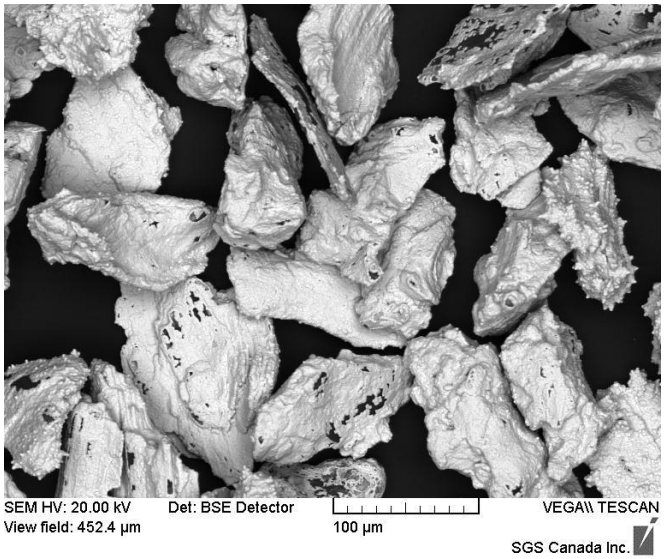
CONDUCTIVE FILLERS / ADVANCED POWDERS
VNCG085 Coarse Grade Vapour Nickel Coated Graphite

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

VNCG085 is the coarse-particle variant of Weber's Vapour Nickel-Coated Graphite, engineered within the same 60% nickel weight class as our finer grade. Its larger particle size distribution (PSD) is optimized for formulations requiring higher filler loading, enhanced mechanical reinforcement, or specific rheological flow characteristics.



THE NVD ADVANTAGE

1. **99.9% Pure Nickel Cores:** Encapsulated atom by atom with zero plating salts, ensuring a product matrix free of iron, sulfur, or chloride residues.
2. **Continuous, Closed Shell:** Minimal exposed graphite ensures highly repeatable, uninterrupted electrical networks within the host polymer.
3. **In-Service Durability:** Eliminates shell cracking or separation during compounding shear, high-pressure 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)
VNCG085	58–63	58	85	138	1.8	1.3–1.5	<3

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 plastics, fluorosilicones, and elastomers
- Sheet-extruded and molded EMI gaskets
- High-loading conductive masterbatches
- Reinforced conductive composites
- Broadband 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