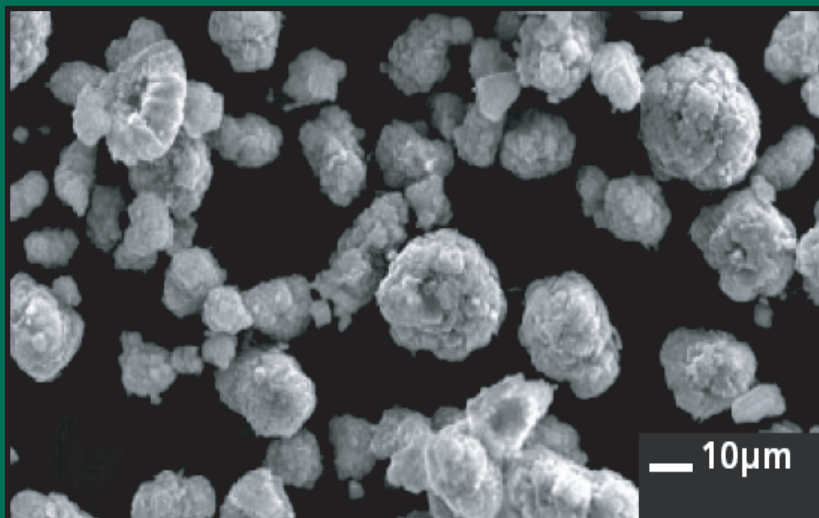


NOVAMET

Developing Unique Customer Solutions Since 1976



Black Nickel Oxide

Made from highly pure nickel

Novamet High Purity Black Nickel Oxide is a unique fine powder oxide of exceptionally high purity and particle surface characteristics. It is made using a proprietary process using very high purity carbonyl nickel powder as the feed material. It is offered in two commercial grades, "A" grade with a typical Microtrac D50 of 6 - 10 microns and the finer "F" grade with a typical D50 of 1 - 2 microns.

Surface Area = Reactivity

The very high BET surface area of Black Nickel Oxide, typically 60 - 100 m² /g ensures very high reactivity in a variety of applications.

Electronics: ferrites, varistors, thermistors

The consistent properties of the two grades of Black Nickel Oxide means they are widely used in production of electronic materials such as mixed oxide ferrites, varistors and thermistors.

Glass colorants, Ni salts & catalysts

The unique combination of high surface area, fine particle size and high chemical purity leads to applications in high quality pigments for glass and ceramics. Can also be used for dissolving into high purity nickel salts and catalysts.

Typical Chemical Analysis (weight percent)

	Grade A	Grade F
Nickel	76.4 - 77.6	76.4 - 77.6
Co max.	0.0015	0.0015
Fe max.	0.015	0.015
Cu max.	0.001	0.001
S max.	0.001	0.001

Typical Impurities

Si	<0.005	Pb	<0.001
Al	<0.005	Zn	<0.001
Ca	<0.001	P	<0.0001
Mg	<0.001	Se	<0.0001
Na	<0.001	Bi	<0.0001
K	<0.001	Cd	<0.0001
Mn	<0.001	Hg	<0.0001

Typical Physical Properties

	Grade A	Grade F
Typical Mean Particle Size (Microtrac D50)	6 - 10	1 - 2
Typical Tap Density (g/cm ³)	1.9 - 2.5	1.5 - 2.0

Packaging

	Grade A	Grade F
Bags (Net Wt.)	20 kg	20 kg
Drums (Net Wt.)	260 kg	200 kg

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NOVAMET Specialty Metal Flakes, Powders, Pigments, Oxides and Coated Products