



## Nickel Flakes

	Screen Analysis (Mesh)	Apparent Density (g/cm <sup>3</sup> )	Flake Thickness (µm)	Major Applications
HCA-1	98% (-400)	1.1	1.0	EMI/RFI Shielding, Coatings/Aerosols
Fine Leafing	95% (-325)	0.6	0.5	Powder Coatings, Hard Metal Binders
Fine Leafing Pigment Grade	95% (-325)	0.5	0.3	Printing Inks
Standard Leafing Paste	75% (-325)	0.8	1.0	Decorative Coatings, Cookware Coatings
Fine Water	95% (-325)	0.6	0.5	Waterborne Coatings
Standard Water	75% (-325)	0.4	0.7	Waterborne Coatings
CHT	99% (-325)	2.0	1.5	Anti-seize Lubricants
97Ni/3Al Leafing	50% (-325)	0.2	0.5	Magnetic Coatings
81Ni/2Mo Permalloy	80% (-325)	0.5	0.5	Magnetic Coatings

## Stainless Steel Flakes

	Screen Analysis (Mesh)	Apparent Density (g/cm <sup>3</sup> )	Flake Thickness (µm)	Major Applications
Fine Leafing	95% (-325)	0.6	0.8	Powder Coatings, Aerosols
Standard Leafing	80% (+325)	0.8	1.0	Architectural Coatings, Powder Coatings
Fine Water	95% (-325)	0.6	0.6	Waterborne Coatings
Standard Water	80% (+325)	0.8	1.0	Waterborne Coatings
SSC Paste	90% (-325)	0.4	0.4	Food Processing Plant Coatings/Aerosols

## Zinc Flakes

	Screen Analysis (Mesh)	Apparent Density (g/cm <sup>3</sup> )	Flake Thickness (µm)	Major Applications
Fine Leafing	90% (-325)	1.7	1.0	Powder Coatings, Aerosols
Fine Leafing -325	99% (-325)	1.7	1.0	Powder Coatings, Aerosols

## Conductive Nickel Powders

	Screen Analysis (Mesh)	Apparent Density (g/cm <sup>3</sup> )	d50 Particle Size (µm)	Major Applications
525 Pigment	100% (-325)	1.0	12 to 14	EMI/RFI Shielding, Coatings/Aerosols
525 Pigment LD	99% (-250)	0.65	14 to 16	EMI/RFI Shielding, Coatings/Aerosols

## Nickel Coated Graphite Powders

	Screen Analysis (Mesh)	Apparent Density (g/cm <sup>3</sup> )	Major Applications
60% Ni Coated Graphite	80 to 95% (-100 to +250)	1.3 to 1.6	Conductive Elastomers/Sealants
75% Ni Coated Graphite	85 to 95% (-100 to +325)	1.6 to 2.1	Conductive Elastomers/Sealants

## Silver Coated Powders

	Screen Analysis (Mesh)	Apparent Density (g/cm <sup>3</sup> )	d90 Particle Size (µm)	Major Applications
15% Ag Coated Ni	90% (-325)	3.4	35 to 45	Conductive Fillers



## 4SP & SNP Powders

	d10 ( $\mu\text{m}$ )	d50 ( $\mu\text{m}$ )	d90 ( $\mu\text{m}$ )	Major Applications
4SP -10 $\mu\text{m}$	3.0	6.3	11.2	Powder Metal Parts / Metal Injection Molding
SNP -400 Mesh	4.4	11.4	25.2	Powder Metal Parts
SNP -20+10 $\mu\text{m}$	7.2	11.4	17.1	Powder Metal Parts
SNP -250 Mesh +20 $\mu\text{m}$	12.6	20.8	34.6	Powder Metal Parts

## Nickel Oxide

	Percent Nickel	Screen Analysis (Mesh)	d50 ( $\mu\text{m}$ )	Major Applications
Green Nickel Oxide	78.5	99% (-325)	14 to 18	Thermistors, Varistors, Ferrites
Green Nickel Oxide - Type A	78.5	99% (-400)	6 to 10	Thermistors, Varistors, Ferrites
Green Nickel Oxide - Type F	78.5	99% (-400)	1 to 2	Thermistors, Varistors, Ferrites Fuel Cell Electrodes
Black Nickel Oxide - "A Grade"	77.2	N/A	6 to 10	Catalysts, Ferrites, Inorganic Color Pigments
Black Nickel Oxide - "F Grade"	77.2	N/A	1 to 2	Catalysts, Ferrites, Inorganic Color Pigments

## Vale Nickel Powder

	FSSS Particle Size ( $\mu\text{m}$ )	Apparent Density ( $\text{g}/\text{cm}^3$ )	d50 ( $\mu\text{m}$ )	Major Applications
Type 123	3 to 7	1.8 to 2.7	8 to 10	PM Parts
Type CGNP		Low impurity nickel powder		Dissolving Application
Type 255	2.2 to 2.8	0.5 to 0.65	14 to 21	Electrodes for Batteries & Fuel Cells

## Nickel Foam

	Thickness (mm)	Density ( $\text{g}/\text{m}^2$ )	Cell Size ( $\mu\text{m}$ )	Major Applications
Open Cell Nickel Foam	1.7 to 2.3	320 to 1450	450 to 800	Electrodes for Batteries & Fuel Cells

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