

NOVAMET

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4SP & SNP Nickel Powders

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4SP & SNP Nickel Powder are high purity smooth spherical powders. It is available screened -400 and also in three air-classified fractions: -10 microns, -20+10 microns and +20 microns.

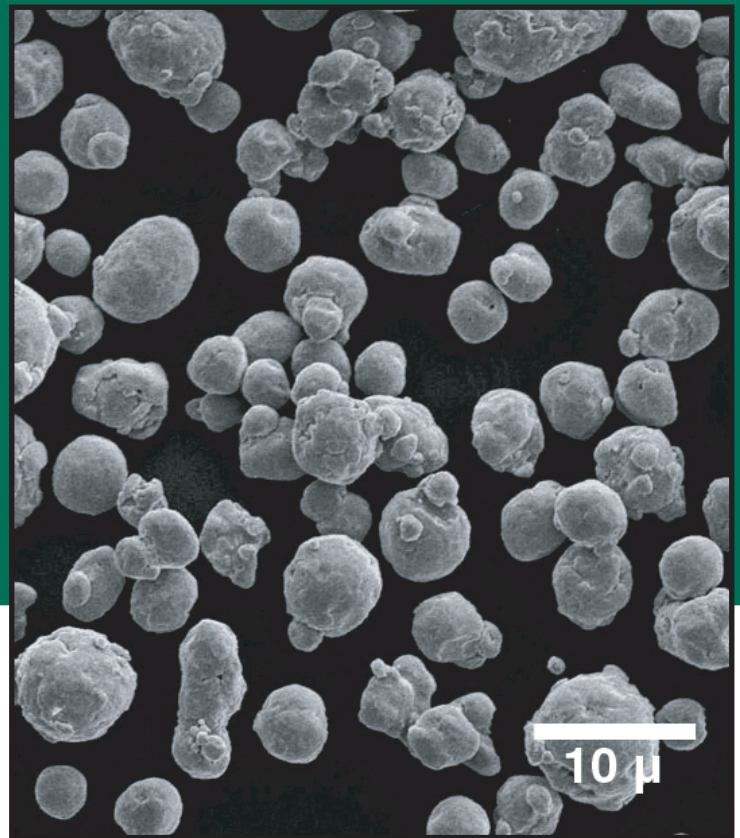
Applications

4SP & SNP Nickel Powders are ideal for making Powder Metal parts where high sintered density and controlled shrinkage are important. Type 4SP -10 is the preferred choice for the Metal Injection Molding Industry. Other 4SP applications include: welding electrodes, sintered magnets, and friction materials.

The Advantages of using 4SP -10 in Metal Injection Molding (MIM)

4SP-10 mirrors the size and shape of the carbonyl iron powder used in MIM and therefore allows for its uniform distribution throughout the alloy composition. Other advantages of using 4SP-10 for MIM applications include:

- Narrow particle size distribution.
- Tap density over 50% of theoretical.
- Spherical powder shape for maximum packing density.
- Low surface area.
- Does not contain agglomerates.



Typical Properties of 4SP & SNP Nickel Powders

Typical Properties

Nickel	Oxygen	Iron	Carbon	Sulfur
99.6	3000 ppm	800 ppm	30 ppm	30 ppm

Size Distribution (Microtrac) microns and Tapped Density

	d10	d50	d90	Tapped Density
SNP-400	4.4	11.4	25.2	5.57
4SP-10	3.0	6.3	11.2	5.48
SNP-20+10	7.2	11.4	17.1	5.45
SNP+20	12.6	20.8	34.6	5.37

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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