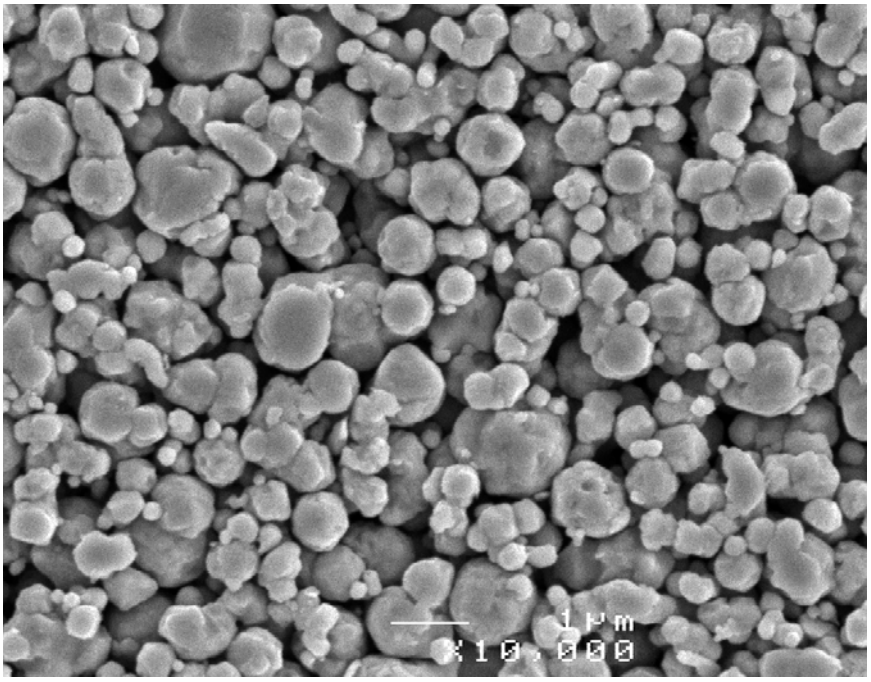
INCOTRONICS® INP-600

(formerly Inco Type 110FSC-60)

Ultrafine Nickel Powder for MLCC Electrodes



INCO's world leading carbonyl-based CVD technology creates superior quality ultrafine nickel powder for use in BME MLCCs and other electronic parts and components.

Key Characteristics

- Superior Shrinkage Onset Temperature
- Excellent Dispersion in Most Paste Systems
- Designed for Easy Fit into Most Paste Systems
- Superb Oxidation Resistance

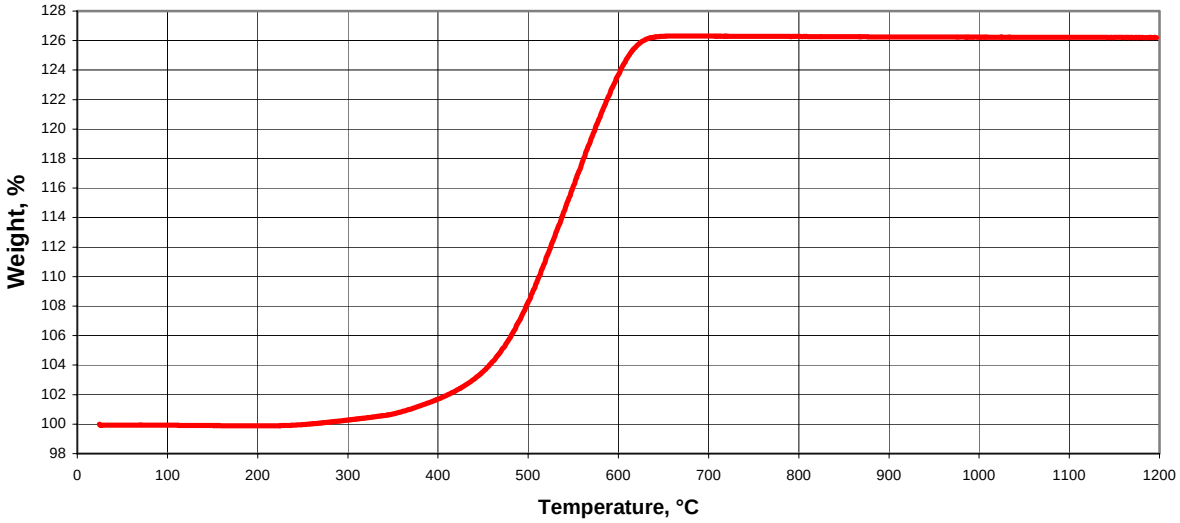
Physical Properties

Tap Density	>2.7 g / cm^3
Specific Surface Area	1.2 – 2.0 m^2 / g
Crystallite Size	700-800 Å
Particle Size Distribution (Count % Basis)	
D10	0.4 – 0.6 µm
D50	0.7 – 0.9 µm
D90	1.0 – 1.3 µm
Dmax	2.0 – 2.7 µm

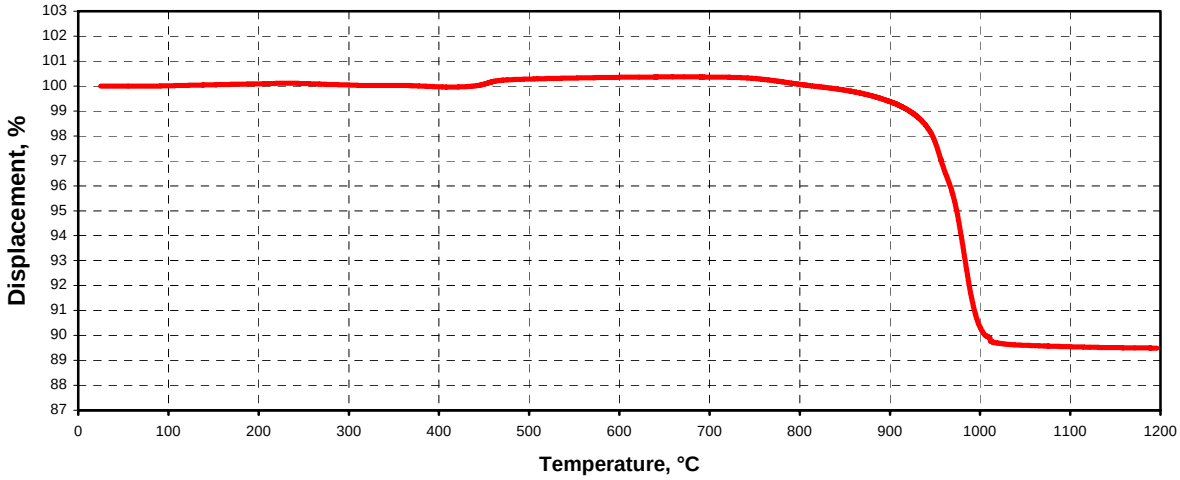
Chemical Properties

C	0.4 – 0.8 wt %
O	0.3 – 0.5 wt %
Na	< 0.005 wt %
K	< 0.005 wt %
Fe	< 0.007 wt %
S	< 0.001 wt %

Typical TGA of INP-600
in air @ 10K/min



Typical TMA of INP-600
500mg pressed into 6mm dia. pellet at 3,300lb
1% H_2-bal. N_2 @ 50ml/min., 10K/min.
Flat Al_2O_3 probe with 10g force



Low Angle Light Images of Dried INP-600 Paste Surfaces
(Prepared Using Lab Scale 3 Roll Mill)