

CuLox Nickel Powders CNS Grades

CuLox Intermediates
(5, 10 microns)
5050CNS, 5100CNS

Description

High purity fine grades of Nickel powders with non-spherical morphology and customized size distributions.

General Application

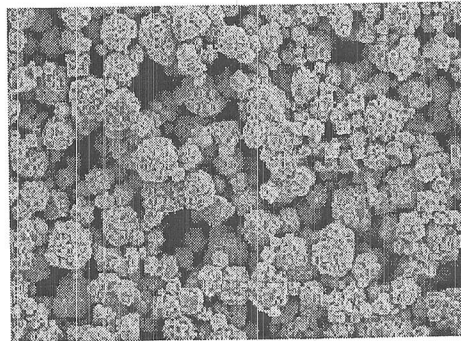
Nickel powders available from CuLox can be used for applications in the electronic industry. Examples of specific applications include use as conducting paste and fillers, EMI shielding etc.

Purity
Nominal Chemistry
(Levels of impurity, wt%)

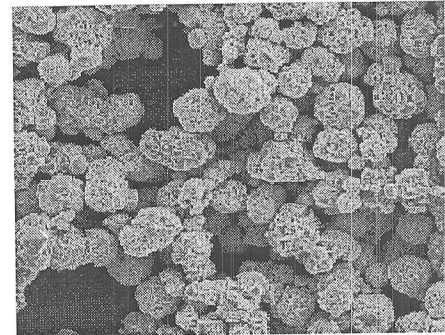
Nominal Chemistry (Impurity Levels, wt%)

		Carbonyl Grade (CNS)	
Ni.....	99.9% min.	C	0.15% max.
Fe	0.015% max.	S	0.01% max.
O	0.20% max.		
others	all alkaline metals 0.015% (combined)		

SEMs



Nickel Grade 5050 CNS (1000X)



Nickel Grade 5100 CNS (1000X)

Size and Physical
Properties

Physical Properties	5050 CNS	5100 CNS
Particle Shape	Non Spherical	Non Spherical
D10 micron	2.0 – 4.0	4.0 – 6.5
D50 micron	4.0 – 6.5	8.0 – 12.0
D90 micron	8.0 – 10.5	12.5 – 17.5
Tap Density (g/cc)	1.75 – 3.0	2.0 – 4.0
Surface Area (m ² /g)	>0.25	>0.20

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