

CuLox Nickel Powders

CuLox Intermediates
(5, 8, 10 microns)
5050, 5100

CuLox Coarse
(20 microns, others)
5200, Custom Sizes

Description

High purity fine grades of discrete nickel powders offered as atomized (A) or carbonyl (C) versions. These powders have spherical morphology and the atomized versions have high degree of crystallinity. Both grades of powders are discrete. Our powders offer excellent dispersion, shrinkage characteristics and oxidation resistance. Other attributes include high tap densities and controlled specific surface area.

General Application

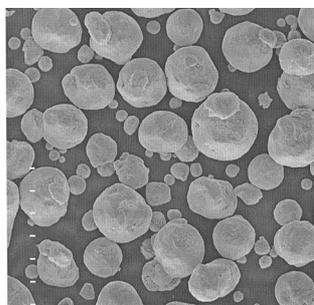
Nickel powders available from CuLox can be used for BME, MLCC's and other electronic applications.

Purity
Nominal Chemistry
(Levels of impurity, wt%)

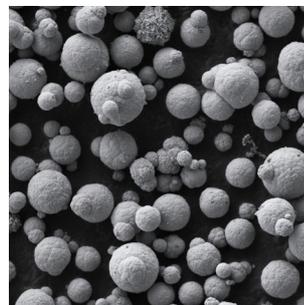
Nominal Chemistry (Impurity Levels, wt%)

	Atomized Grade (A)	Carbonyl Grade (C)
Ni.....	99% min.	99% min.
Fe	0.15% max	0.01% max.
O	0.60% max	0.40% max.
C	0.25% max	0.10% max.
others	all alkaline metals 0.015% (combined)	

SEMs



Nickel Grade (A) Atomized



Nickel Grade (C) Carbonyl

Physical Properties	5050A	5100A	5200A	5050C	5100C	5200C
Particle Shape	Sphere	Sphere	Sphere	Sphere	Sphere	Sphere
D ₁₀	2.5-3.5	4.5-6.5	Custom	2.5-3.5	4.5-6.5	Custom
D ₅₀	4.5-6.5	6.5-12.5	Custom	4.5-6.5	6.5-12.5	Custom
D ₉₀	8.0-10.0	12.0-16.0	Custom	8.0-10.0	12.0-16.0	Custom
Surface Area (m ² /g)	0.25 max.	0.15 max.	<0.10	0.2-0.5	0.10-0.20	<0.10
Tap Density (gm/cc)	>3.5	>3.5	>3.5	>3.0	>3.0	>3.0

CuLox Technologies, Inc. believes the information contained herein to be complete and reliable. However, no guarantee or warranty of any kind express or implied is made with respect to the information contained herein. CuLox assumes no responsibility for the results from the use of these products and processes. It is also not responsible for damages incurred from the use of the information in whole or in part. Statements and recommendations made herein are not to be construed as inducements to infringe on any relevant patent in existence now or hereafter.