

CuNi2SiCr

Metal Powder for Additive Manufacturing

PRODUCT DESCRIPTION

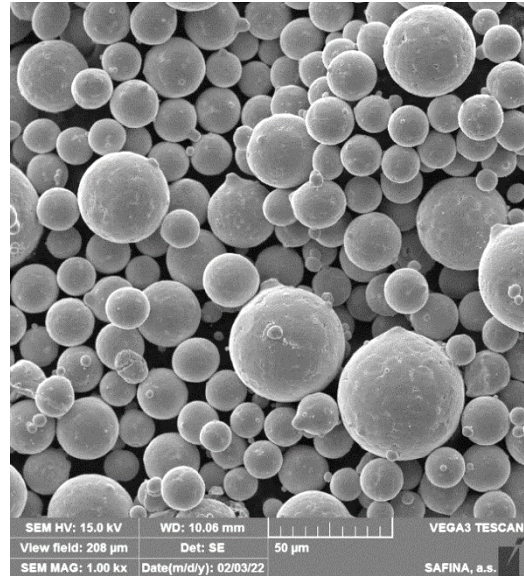
Gas atomized copper-nickel alloy

KEY FEATURES

Safina produce high quality powders with perfect traceability and repeatability and have very good sphericity, excellent flowability. This alloy has exclusive combination of conductivity and strength.

APPLICATIONS

Balance between high wear resistance and electrical and also thermal conductivity. This alloy also offers very good corrosion resistance without beryllium content.



TYPICAL PROPERTIES

PHYSICAL DATA:

PSD*	D10 [µm]	D50 [µm]	D90 [µm]
5-20 µm	4	12	22
15-45 µm	10	31	48
20-63 µm	18	38	66
45-105 µm	40	71	106

CHEMICAL DATA:

Element	Min [wt. %]	Max [wt. %]
Cu	Bal.	Bal.
Ni	2,0	3,0
Si	0,5	0,1
Cr	0,2	0,5
Fe	-	0,15
Mn	-	0,1
Pb	-	0,02
Impurities (exl. oxygen)	-	0,015

OTHER DATA**

Flowability [s/50g]	15
Apparent density [g/cm ³]	4,9

* Other PSD possible according to customer needs

** Displayed values are for PSD 20-63 µm suitable for LPBF technology