BINDER JETTING MATERIAL DATASHEET

Markforged

Copper

Copper is a 99.9% commercially pure material with excellent electrical and thermal conductivity properties.

It is mostly used for electronics, heat exchangers, heat sinks, engine parts as well as in a variety of industry applications that require good conductivity.

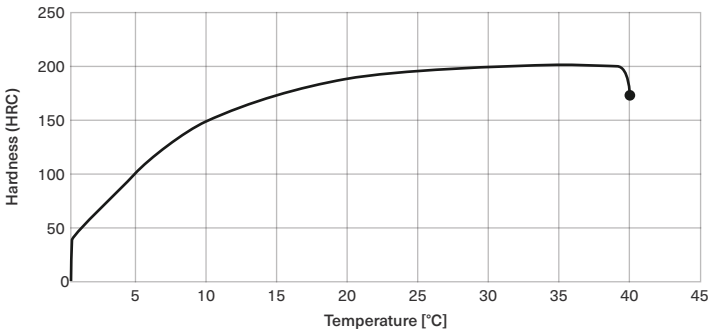
Printing in copper offers freedom of design and enables optimal functionality with few restrictions.

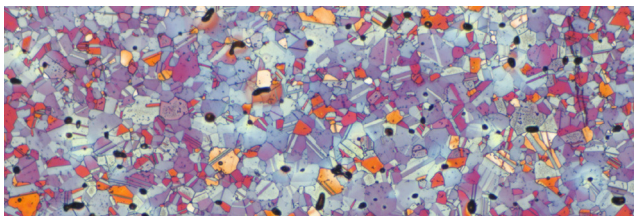
Features & Benefits
99.9% pure material
Excellent thermal and electrical conductivity
Great ductility

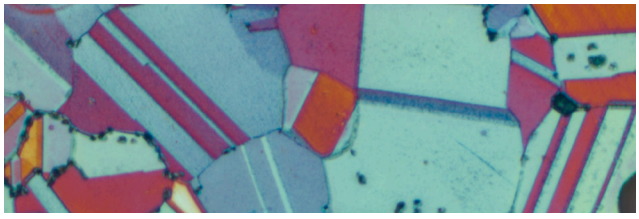
Composition	Weight%
Copper	99.9
Iron	0.04
Nickel	0.015
Carbon	0.02
Oxygen	0.003
Others	Balance

Density	Hardness (HRC)
Ultimate tensile strength (MPa)	195
Yield strength [MPa]	30
Elongation [%]	35
Sintered density [g/cm3]	8.6

TENSILE TEST BEHAVIOR OF COPPER







*LOM Images – DM Cu etched with Klemm's reagent plus polarized light