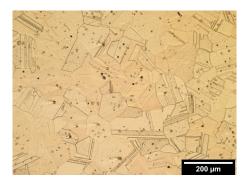
FEATURES

- High purity Copper (99.9%)
- A ductile and malleable metal
- Excellent thermal conductivity
- Excellent electrical conductivity

INDUSTRIES SERVED

- Aerospace
- Medical Devices
- Electronic Products
- Transportation
- Industrial Equipment Power Generation & Machinery
 - & Transmission

MICROSTRUCTURE



COMPOSITION (wt%)

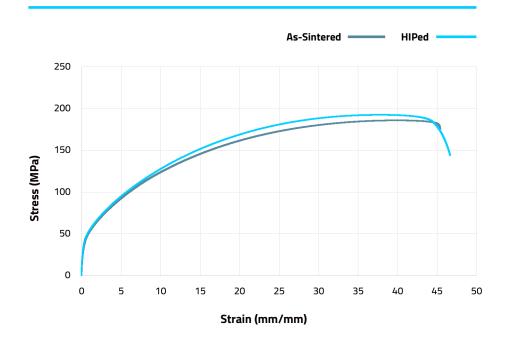
Element	Typical Value	
Copper (Cu)	99.9	
Carbon (C)	0.015	
Iron (Fe)	0.010	
Phosphorus (P)	<0.01	
Oxygen (O)	<0.005	
Other	Balance	

MATERIAL PROPERTIES

	As-Sintered	Hot Isostatic Pressed	Test Method
Ultimate Tensile Strength (MPa)	183 ± 2	194 ± 2	ASTM E8/ E8M
Yield Strength (MPa)	43 ± 3	43 ± 3	
Elongation (%)	43 ± 1	50 ± 1	
Electrical Conductivity (% IACS)	86 ± 2	97 ± 1	ASTM E1004
Density (g/cm ³)	8.35 ± 0.05	8.93 ± 0.01	ASTM B962
Relative Density (TD%)	93.3 ± 0.5	99.7 ± 0.1	
Surface Roughness (Ra, μm)	2.5 (100 μin)		ISO 21920

The performance characteristics of these materials may vary according to application, operating conditions, or end use. Each buyer is responsible for determining that the material is safe, lawful, and technically suitable for the intended application. 3DEO makes no warranties, expressed or implied, including, but not limited to, the warranties of merchantability, fitness for a particular use, or warranty against patent infringement. Product specifications are subject to change without notice.

MECHANICAL PROPERTIES





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