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TECHNICAL DATA

Tungsten-Copper for Electric Application

Tungsten-Copper high performance composites for electrical applications are made from carefully controlled porous tungsten that is vacuum infiltrated with molten copper. This provides a superior electrical contact material that combines the refractory, long lasting wear resistant properties of tungsten with the high thermal and electrical conductivity of copper.



Alloys and Properties

Type	Density (g/cm ³)	HB (MPa)	Electrical Conductivity (% IACS)	Form
WCu10	16.8-17.2	WCu10	16.8-17.2	Rods, bars, sheet, plate and finished parts
WCu20	15.2-15.6	≈ 2160	> 34	
WCu25	14.5-15.0	≈ 1940	> 38	
WCu30	13.8-14.4	≈ 1720	> 42	

Electric Applications

High Voltage Arc Contacts, Vacuum Contacts, Electrodes for Resistant Welding and Spark Erosion, Leaders for Steel Rolling, Dies for Casting, Balance Weights, Rocket Parts.