

04_BeCu25

Legierter Bronzedraht für Ampcoloy-Legierungen. Sehr gute Wärmeleitfähigkeit.

Alloyed bronze welding wire for ampcoloy alloys. Very good heat conductivity.

Beryllium Copper is the most commonly utilized Copper Beryllium alloy and is notable for its highest strength and hardness compared to commercial copper alloys. BeCu25 alloy contains appr. 2% of beryllium and achieves its ultimate tensile strength can exceed 200 ksi, while the hardness approaches Rockwell C45. Meanwhile, the electrical conductivity is a minimum of 22% IACS in the fully aged condition.

Typical Application for C17200 Beryllium Copper Alloys:

Electrical Industry: Electrical Switch and Relay Blades, Fuse Clips, Switch Parts, Relay parts, Connectors, Spring Connectors, Contact Bridges, Belleville Washers, Navigational Instruments, Clips

Fasteners: Washers, Fasteners, Lock Washers, Retaining Rings, Roll Pins, Screws, Bolts

Industrial: Pumps, Springs, Electrochemical, Shafts, Non Sparking Safety Tools, Flexible Metal Hose, Housings for Instruments, Bearings, Bushings, Valve Seats, Valve Stems, Diaphragms, Springs, Welding Equipment, Rolling Mill Parts, Spline Shafts, Pump Parts, Valves, Bourdon Tubes, Wear Plates on Heavy Equipment, Bellows

Be	2,10
Co+Ni+Fe	0,60
Cu	Basis
Sonst.	-

Werkstoff-Nr. BeCu25

Typical Physical Properties:

Density (g/cm³): 8.36

Density before age hardening (g/cm³): 8.25

Elastic Modulus (kg/mm² (10³)): 13.40

Thermal Expansion Coefficient (20 °C to 200 °C m/m/°C): 17 x 10⁻⁶

Thermal Conductivity (cal/(cm-s-°C)): 0.25

Melting Range (°C): 870-980

Für Grundwerkstoffe / for base materials:

Ampcoloy Legierungen / ampcoloy alloys, Moldmax