

U77 C17200 HT CLASS 4, Materion Alloy 25 (BERYLLIUM COPPER)

WROUGHT PRODUCT-EXTRUDED ROD, BAR, TUBE & FORGINGS



ABOUT

C17200 is a heat treatable Copper alloy. For applications requiring good electrical or thermal conductivity. Has high strength and hardness with excellent corrosion resistance. Non- Sparking alloy.

APPLICATIONS:

Electronic connectors, Bearings and Bushes, Corrosion resistant components, Core Pins and Inserts for Plastic Injection Moulding. Plastic Moulds. High Deflection Tubes. Directional Drilling Tubes. Bearings for Aircraft Landing Gear. Non- Sparking Tools. Anti- Galling Wear Plate. Machined Threaded Fasteners. Die Inserts for Resistance Welding. Resistance Welding Holders,

CHEMICAL COMPOSITON						
Copper % Cu	Beryllium% Be	Cobalt % +Nickel % Co + Ni	Cobalt % +Nickel % +Iron % Co+Ni+Fe	Lead % Pb	Aluminium % Al	Silicon % Si
REM	1.8 – 2.0	0.20 max	0.6 max	0.02 max	-----	-----

TYPICAL MECHANICAL & ELECTRICAL PROPERTIES --- TEMPER: HT (TH04)							
TENSILE STRENGTH		YIELD STRENGTH		ELONGATION %	HARDNESS		ELECTRICAL CONDUCTIVITY % IACS
MPa	1137 – 1378	MPa	896 - 1206	3 - 10	Rockwell HRC	36 - 42	22 - 28
KSi	165 - 200	KSi	130 - 175		Brinell HB	332 - 393	
				Vickers HV	353 - 413		