

U50 C17510 HT CLASS 3 (BERYLLIUM COPPER)

WROUGHT PRODUCT-EXTRUDED ROD, BAR & FORGINGS



ABOUT

C17510 is a heat treatable Copper alloy. For applications requiring good electrical or thermal conductivity as well good strength and hardness.

APPLICATIONS:

Resistance Welding Electrodes and Holders, Electronic connectors, Bearings, Plastic Moulds, Corrosion resistant components, Die Casting Plunger Tips.

CHEMICAL COMPOSITON						
Copper %	Beryllium%	Nickel %	Cobalt %	Iron %	Aluminium %	Silicon %
REM	0.2 – 0.6	1.4 – 2.2	0.3 max	0.1 max	0.2 max	0.2 max

TYPICAL MECHANICAL & ELECTRICAL PROPERTIES --- TEMPER: HT (TH04)							
TENSILE STRENGTH		YIELD STRENGTH		ELONGATION %	HARDNESS		ELECTRICAL CONDUCTIVITY % IACS
MPa	607 – 648	MPa	655 - 861	5 - 25	Rockwell HRB	95 - 102	48 - 60
					Brinell HB	210 - 240	
KSi	88 - 94	KSi	95 - 125		Vickers HV	210 - 247	