

COPPER AS-1567 -110 C11000
(HI CON COPPER)
WROUGHT PRODUCT-EXTRUDED ROD & BAR



ABOUT

Has the highest thermal and electrical conductivity, it is the most common copper used for electrical applications. This Copper has an extremely wide range of applications based on its conductivity, corrosion resistance, workability C110 is used for applications where conductivity is important.

EQUIVALENT TO

Britain	BS-2873 – C101
USA	ASTM -B-C11000
Japan	JIS HS-3250-C1100
Germany	

APPLICATIONS

- Electrical Busbar and rods
- Electrical components

Nominal Composition	
Copper %	99.9
Phosphorus %	-----
Oxygen %	0.025
Sulphur %	-----
Silver %	-----
Tellurium %	-----

Typical Mechanical Properties		Temper: Drawn		
		Up to 13 mm	13 to 50 mm	Over 50 mm
	Size			
Tensile	MPa	310	280	250
0.2% Proof Stress	MPa	265	200	135
Elongation % (5.65)		25	33	40
Hardness	HV	110	95	80
Shear Strength	MPa	185	155	130

Physical Properties			Corrosion Resistance	
Melting Point °C	1083		Rural Atmosphere	Excellent
Density kg/m ³	8940		Industrial Atmosphere	Excellent
Electrical Conductivity % IACS	98-101		Marine Atmosphere	Excellent
Modulus of Elasticity MPa	117000		Sea Water	Good
			Drinking Water	Excellent
Fabrication Data			Joining	
Machinability (brass = 100%)	20%		Oxy- Acetylene welding	Not Recommended
Riveting & Peening	Excellent		Coated Metal Arc Welding	Not Recommended
Thread Rolling	Excellent		Carbon Arc Welding	Fair
Cold Heading	Excellent		Gas Sheilded Arc Welding (Tig & Mig)	Fair
Bending (cold)	Excellent		Soft Soldering	Excellent
Hot Forging	Good		Silver Soldering	Good
Hot Forging Temp °C	875			
Annealing °C	470			
Stress Relieving °C	175			