

**COPPER AS-1567 -147 C14700**  
**(SULPHUR COPPER)**  
**WROUGHT PRODUCT, EXTRUDED ROD & BAR**



**ABOUT**

Tellurium Copper has machinability close to that of free machining brass as well as retaining good electrical conductivity.

**EQUIVALENT TO**

Britain	BS-2874 – C111
USA	ASTM -B301-c14700
Japan	
Germany	

**APPLICATIONS**

- Electrical components where threading or fine machining is required.

Nominal Composition	
Copper %	REM
Phosphorus %	0.01
Oxygen %	----
Sulphur %	0.4
Silver %	---
Tellurium %	----

Typical Mechanical Properties		Temper: Drawn		
		Up to 13 mm	13 to 50 mm	Over 50 mm
	Size			
Tensile	MPa	340	310	260
0.2% Proof Stress	MPa	300	230	175
Elongation % ( 5.65 )		15	22	30
Hardness	HV	115	100	85
Shear Strength	MPa	215	185	155

Physical Properties			Corrosion Resistance	
Melting Point °C	1073		Rural Atmosphere	Excellent
Density kg/m <sup>3</sup>	8940		Industrial Atmosphere	Excellent
Electrical Conductivity % IACS	85-100		Marine Atmosphere	Excellent
Modulus of Elasticity MPa	117000		Sea Water	Good
			Drinking Water	Excellent
Fabrication Data			Joining	
Machinability ( brass = 100% )	85%		Oxy- Acetylene welding	Not Recommended
Riveting & Peening	Fair		Coated Metal Arc Welding	Not Recommended
Thread Rolling	Fair		Carbon Arc Welding	Fair - Good
Cold Heading	Not Recommended		Gas Sheilded Arc Welding (Tig & Mig)	Fair
Bending ( cold )	Fair to Good		Soft Soldering	Good - Excellent
Hot Forging	Good		Silver Soldering	Good - Excellent
Hot Forging Temp °C	875			
Annealing °C	630			
Stress Relieving °C	250			