



SHREE EXTRUSIONS LIMITED



C14700

SULPHUR COPPER

C111 / CW114C is a free machining sulphur copper with a machinability rating of approximately 80% (free machining brass = 100%). The addition of sulphur to the copper creates Cu₂S copper sulphide within the microstructure that acts as a chip breaker and forms the basis of the free machining capacity.

Sulphur copper is de-oxidised during its manufacture by adding phosphorus, and as a result the material offers a freedom from hydrogen embrittlement. Other benefits of C111 / CW114C are high corrosion resistance, a very good formability and can be joined easily by soldering.

Related Specifications

- BS2874 C111
- BS EN12164 CW114C
- C14700
- CuSP

CHEMICAL COMPOSITION

	Cu+Ag	Sulphur	Ph
Min/Max	99.8% min	0.3 - 0.60%	0.003-0.012%

PHYSICAL PROPERTIES

Product Property	Metric
Coefficient of Thermal Expansion	(20-200 °C) 17 x 10 ⁻⁶ per °C
Coefficient of Thermal Expansion	
Density	8.94 gm/cm ³ @ 20 C
Electrical Conductivity	93% IACS
Electrical Resistivity	0.0181 microhm m
Melting Point Liquid US	1079 C
Modulus of Elasticity in Tension	12500 Kg/mm ²
Specific Heat Capacity	385 J/Kg °K
Thermal Conductivity	347 W/m

SIZES AVAILABLE :

- | | |
|-------------|--|
| HOLLOW RODS | Min Bore Size 20 mm and Max OD 100 mm |
| ROUND RODS | 8mm To 100 mm |
| HEX | 10mm To 60mm |
| SQUARE | 10mm To 60mm |
| FLAT | 10mm Min Thickness and max Width 120mm |
| BILLETS | Up to 200 mm |
| INGOTS | As per Specification |

Regd. Office & Works:
 217/218 Phase-II, Okha Rajkot Road, Dared, Jamnagar - 361 004. INDIA
 Tel.: +91 - 288 - 2730118 | Mobile: +91 - 9328105172
 mail@shree-extrusion.com | www.shree-extrusion.com



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