



# SHREE EXTRUSIONS LIMITED

## C12200

## PHOSPHORUS-DEOXIDIZED, HIGH RESIDUAL P

### EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	Cu-DHP
European	Cu-DHP
BS	C-106
JIS	C 1220
M1 f	M1 f

Phosphorus deoxidised copper, has been made weldable and brazable by deoxidising with phosphorus. It is widely used as flat products and tubing, especially where it is to be welded or brazed. Phosphorus significantly reduces the conductivity, which may go as low as 70% IACS, but also raises the softening temperature when work hardened and promotes fine grain size.

### TYPICAL USES:

Tubes for hot & cold water, gas & heating installations, soil & waste pipes, storage tanks, cisterns & cylinders, rainwater goods, roofing, fascias, building facades, evaporators, heat exchangers, stills, vats, chemical equipment, anodes for electroplating baths.

### CHEMICAL COMPOSITION

	Cu	P
Min/Max	99.90 min	0.015-0.04
Nominals	99.7	0.013-0.06

### PHYSICAL PROPERTIES

Melting Point - Liquidus °F	1981
Densitylb/cu in. at 68°F	0.323
Specific Gravity	8.94
Electrical Conductivity% IACS at 68°F	85
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	196
Coefficient of Thermal Expansion 68-21210 <sup>-6</sup> per °F (68 - 212°F)	9.4
Coefficient of Thermal Expansion 68-39210 <sup>-6</sup> per °F (68 - 392°F)	9.5
Coefficient of Thermal Expansion 68-57210 <sup>-6</sup> per °F (68 - 572°F)	9.8
Specific Heat CapacityBtu/ lb / °F at 68°F	0.092
Modulus of Elasticity in Tensionksi	17000
Modulus of Rigidityksi	6400

### SIZES AVAILABLE :

HOLLOW RODS  
ROUND RODS/BARS  
HEX  
SQUARE  
FLAT  
BILLETS  
INGOTS

Min Bore Size 20 mm and Max OD 100 mm  
8mm To 100 mm  
10mm To 60mm  
10mm To 60mm  
10mm Min Thickness and max Width 120mm  
Up to 200 mm  
As per Specification

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