



Metal Alloys Corporation



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
Density/lb/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 ⁻⁶ per °F (68 - 212°F)	9.4
Coefficient of Thermal Expansion 68-39210 ⁻⁶ per °F (68 - 392°F)	9.5
Coefficient of Thermal Expansion 68-57210 ⁻⁶ 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

Regd. Office & Plant
Plot No. 6 & 7, Village: Lakhavaval, Post: Khodiyar Colony, Jamnagar - 361006.
Tel.: +91-288-2889251 / 52, Fax: +91-288-2889223, Cell: +91-9924443396
Email: info@metalalloyscorp.com • web: www.metalalloyscorp.com



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