



# MEI-122 (Cu-DHP)

## ROLLED PRODUCTS

CHEMICAL COMPOSITION(%)	
Cu	≥99.90
P	0.015-0.04

ALLOY DESIGNATIONS	
UNS	C12200
EN	Cu-DHP
JIS	C1220
BS	C106

COIL/ SHEET SPECIFICATIONS	
Thickness (mm)	0.08-3.0
Width (mm)	6.00 - 406
Inner Diameter (mm)	100-150-200-300-400-500
Coil Weight (Kg/mm width)	1.00 - 4.00
Sheet Length (m)	0.50 - 3.00
*Note: 1. Min. and Max. width depends on thickness of the strip 2. Material temper depends on thickness of the strip	

**CHARACTERISTICSCS**

MEI-122 is deoxidized high phosphorous residual copper commonly pure copper which has been deoxidized with phosphorous leaving relatively high residual phosphorous content.

MEI-122 is not susceptible to hydrogen embrittlement but is relatively low conductivity.

### MECHANICAL PROPERTIES

Temper		Hardness , HV	Tensile Strength MPa	Yield Stress MPa	Elongation %	
					T<0.1mm	T> 0.1mm
Ann.	O	40-60	200-250	≤100	≥20	≥35
1/4 Hard	H01	60-75	220-260	≤140	≥10	≥15
1/2 Hard	H02	70-90	240-290	≥180	≥5	≥10
Hard	H04	90-110	290-360	≥250	≥2	≥4
Extra Hard	H06	≥110	≥360	≥320	-	-

### PHYSICAL PROPERTIES

#### TYPICAL VALUES IN ANNEALED TEMPER AT 20 ° C

Density (g/cm <sup>3</sup> )	Electrical conductivity (% IACS)	Thermal Conductivity (W/m.K)	Modulus of Elasticity Gpa	Specific Heat J/kg.K
8.92	81	340	132	385

### MITTAL ENGINEERING INDUSTRIES

OLD BILASPUR ROAD , JAGADHRI-135003 (HARYANA)

Website-mittalengind.in



# MEI-122 (Cu-DHP) ROLLED PRODUCTS

## Fabrication Properties

Capacity for being cold worked	Excellent
Machinability	Less suitable
Capacity for being electroplated	Excellent
Capacity for being hot dip tinned	Excellent
Soft soldering	Excellent
Resistance welding	Less suitable
Gas shielded arc welding	Excellent
Laser welding	Good

## Corrosion Resistance

MEI-122 generally less subject to corrosion than other engineering metals.

Resistant to industrial atmosphere ( formation of dark resp. protective layers) , industrial and drinking water( max. flow rate 4.5 to 6.0 ft/s), pure water vapor, non oxidizing acids, alkalis ( except for ammonia and cyanide containing compounds), neutral saline solutions

Non resistant to oxidizing acids, hydrous ammonia and halogenated gases, halogen sulfide, sea water especially with high flow rates.

## Packaging

Standard seaworthy packaging or as per specific requirements of customer.



## TYPICAL APPLICATIONS

- Heat exchangers
- Transistors
- Strip for plating
- Mineral insulated cables
- Pipelines

MEI-122 conform ROHS Directive

This data is general technical product information. Binding technical features are subject to the contract.