



MEI-115(CuZn1)

ROLLED PRODUCTS

CHEMICAL COMPOSITION(%)	
Cu	≥99%
P	≤0.02%
Other	≤0.10%
Zn	REM%

ALLOY NAME	
UNS	C18661
DIN CENT/TS 13388	2.0205

SHEET/PLATE SPECIFICATIONS	
Thickness (mm)*	0.3- 25.00
Width (mm) *	≤1250
Length(mm)*	≤2500

CHARACTERISTICS
 CuZn1 is a low alloyed Zinc copper with very high conductivity and enhanced softening resistance. It has excellent cold forming, stamping and bending properties. Deep drawing properties are better than Cu-ETP and Cu- DHP. Corrosion resistance, brazing, soldering and hydrogen crack embrittlement resistance are good too. Main application is leadframe, metal good, apparatus and construction industries.

MECHANICAL PROPERTIES (EN 1652)					
Temper	Tensile Strength MPa	Yield Strength MPa	Hardness HV	Elongation %	
				T<0.1mm	T>0.1mm
O (Soft)	200-250	≤100	50-60	≥20	≥35
QH (Quarter hard)	220-260	≤140	60-75	≥10	≥15
HB (Half hard)	240-290	≥180	70-90	≥5	≥10
HD (Hard)	290-360	≥250	90-110	≥2	≥4

PHYSICAL PROPERTIES				
TYPICAL VALUES IN ANNEALED TEMPER AT 20 ° C				
Density (g/cm ²)	Electrical conductivity (% IACS)	Thermal Conductivity (W/m.K)	Modulus of Elasticity Gpa	Specific Heat J/Kg
8.92	79...88	350	125	386

MITTAL ENGINEERING INDUSTRIES
 OLD BILASPUR ROAD , JAGADHRI-135003 (HARYANA)
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Fabrication Properties

TECHNIQUE	SUITABILITY
Cold Forming Properties Max. 95% between annealing's	Excellent
Hot Forming Properties at 800..900ja C	Excellent
Machinability (Rating 25)	Fair
Hot tinning Properties	Good
Soft Soldering	Good

CORROSION RESISTANCE

Industrial atmosphere (formation of dark or green protective layers), industrial and drinking water (max, flow rate approx.. 1.5 to 2m/s). Pure water vapour and neutral saline solution can be annealed in hydrogen containing atmosphere
Practically resistant against stress corrosion cracking.

Packaging

Standard seaworthy packaging or as per specific requirements of customer.

MAIN APPLICATIONS

AUTOMATIVE: starter, switches and relays, contacts, connecters, terminals.

INDUSTRIAL: metal goods, apparatus and construction industry.

ELECTRICALS: leadframes, cables for telecommunication, antenna, data cables etc.

MEI-115 conform ROHS Directive

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