



# MEI-65(CuZn35) ROLLED PRODUCTS

CHEMICAL COMPOSITION(%)	
Cu	64.00-66.00
Fe	≤0.05
Pb	≤0.05
Ni	≤0.10
Zn	REM

ALLOY DESIGNATIONS	
UNS	C27000
EN	CuZn35
JIS	C2680
BS	CZ107

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 – 4.00
*Note: 1. Min. and Max. width depends on thickness of the strip 2. Max. thickness depends on material temper.	

**CHARACTERISTICS**

Commercial Name is Yellow Brass

MEI-65 is the major brass for the cold forming process. The forming properties of this alloy meet the demand of many applications and hence this is the most used alloy.

MECHANICAL PROPERTIES						
Temper		Hardness , HV	Tensile Strength MPa	Yield Stress MPa	Elongation %	Grain Size
Ann.	0	60-75	285-340	≤170	≥45	0.035-0.100
1/4 Hard	Ho1	75-90	340-370	≥170	≥40	0.015-0.050
1/2 Hard	Ho2	95-125	390-450	≥220	≥28	≤0.015
3/4 Hard	Ho3	125-145	440-490	≥370	≥10	≤0.010
Hard	Ho4	140-160	480-550	≥410	≥5	≤0.010
Extra Hard	Ho6	160-185	540-630	≥460	-	≤0.005
Spring Hard	Ho8	≥185	≥630	≥550	-	≤0.005

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
8.47	27	116	110	380

MITTAL ENGINEERING INDUSTRIES  
 OLD BILASPUR ROAD , JAGADHRI (HARYANA)  
 Website-mittalengind.in



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## Fabrication Properties

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

## CORROSION RESISTANCE

MEI-65 is good corrosion resistant to water, water vapor, different saline solutions, many organic liquids, land, sea and industrial atmosphere.

Not resistant to acids, hydrous sulphur compounds, and hydrous ammonia in non-stress relieved conditions.

A heat treatment can help in avoid stress corrosion cracking.

## Packaging

Standard seaworthy packaging or as per specific requirements of customer.

## TYPICAL APPLICATIONS

- Radiator cores, Radiator tanks
- Sockets shells, Flashlight shells, Lamp fixtures, Reflectors
- Springs, Chain, Bead chain
- Connectors
- Stamped parts

MEI-65 conform ROHS Directive

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