



# MEI-60(CuZn40) ROLLED PRODUCTS

| CHEMICAL COMPOSITION(%) |             |
|-------------------------|-------------|
| Cu                      | 59.00-61.00 |
| Fe                      | ≤0.070      |
| Pb                      | ≤0.100      |
| Ni                      | ≤0.100      |
| Zn                      | REM         |

| ALLOY DESIGNATIONS |        |
|--------------------|--------|
| UNS                | C28000 |
| EN                 | CuZn40 |
| JIS                | C2800  |
| BS                 | CZ109  |

## 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 Muntz metal

MEI-60 is an economical brass alloy with high zinc content, good forming properties and

## MECHANICAL PROPERTIES

| Temper      |     | Hardness ,<br>HV | Tensile<br>Strength<br>MPa | Yield Stress<br>MPa | Elongation % | Grain Size  |
|-------------|-----|------------------|----------------------------|---------------------|--------------|-------------|
| Ann.        | 0   | 60-80            | 290-350                    | ≤170                | ≥35          | 0.035-0.100 |
| 1/4 Hard    | Ho1 | 90-110           | 350-430                    | ≥170                | ≥25          | 0.015-0.050 |
| 1/2 Hard    | Ho2 | 110-135          | 430-490                    | ≥220                | ≥15          | ≤0.015      |
| Hard        | Ho4 | 135-165          | 490-565                    | ≥410                | ≥5           | ≤0.010      |
| Extra Hard  | Ho6 | 165-185          | 565-650                    | ≥460                | -            | ≤0.005      |
| Spring Hard | Ho8 | ≥190             | ≥650                       | ≥550                | -            | ≤0.005      |

## PHYSICAL PROPERTIES

TYPICAL VALUES IN ANNEALED TEMPER AT 20 ° C

MITTAL ENGINEERING INDUSTRIES  
OLD BILASPUR ROAD, JAGADHRI-135003 (HARYANA)  
Website-mittalengind.in



# MEI-60(CuZn40) ROLLED PRODUCTS

| Density<br>(g/cm <sup>3</sup> ) | Electrical<br>conductivity<br>(% IACS) | Thermal<br>Conductivity<br>(W/m.K) | Modulus of<br>Elasticity<br>Gpa | Specific Heat<br>J/kg.K |
|---------------------------------|--|------------------------------------|---------------------------------|-------------------------|
| 8.39                            | 22                                     | 116                                | 105                             | 375                     |

## Fabrication Properties

|                                   |               |
|-----------------------------------|---------------|
| Capacity for being cold worked    | Fair          |
| 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-60 has very good resistance to water, water vapor, different saline solutions, many organic liquids, land sea and industrial atmosphere.

Better resistance to sulphur bearing compounds than that of high copper alloys.

This alloy is tends to stress corrosion cracking A heat treatment can help in avoid stress corrosion cracking.

## Packaging

Standard seaworthy packaging or as per specific requirements of customer.

## TYPICAL APPLICATIONS

- Locks and metal fittings, keys
- Condensertube, Valve stems, Hot forgings, Heat exchanger tube
- Bolts, Decorative hardware
- Architecture

MEI-60 conform ROHS Directive

