



# MEI-95 (CuZn5) ROLLED PRODUCTS

## CHEMICAL COMPOSITION(%)

<b>Cu</b>	<b>94.00-96.00</b>
<b>Fe</b>	<b>≤0.05</b>
<b>Pb</b>	<b>≤0.02</b>
<b>Ni</b>	<b>≤0.10</b>
<b>Zn</b>	<b>REM</b>

UNS

## ALLOY DESIGNATIONS

C21000

EN

CuZn5

JIS

C2100

BS

CZ125

## COIL /SHEET SPECIFICATIONS

<b>Thickness (mm)*</b>	<b>0.08- 3.0</b>
<b>Width (mm) *</b>	<b>6.00 - 406</b>
<b>Inner Diameter (mm)</b>	<b>100-150-200-300-400-500</b>
<b>Coil Weight (Kg/mm width)</b>	<b>1.00 - 4.00</b>
<b>Sheet Length (m)</b>	<b>0.50 - 4.00</b>

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

## CHARACTERISTICS

Commercial name is Gilding metal

MEI-95 has very good cold forming characteristics and having slightly higher strength than pure copper.

MEI- 95 has good welding and brazing properties as well as good resistance to corrosion, seasonal cracking and dezincification.

## MECHANICAL PROPERTIES

Temper	Hardness* , HV	Tensile Strength MPa	Yield Stress MPa	Elongation %	Grain Size
Ann. 0	50-70	230-270	≤130	≥35	≤0.050
1/2 Hard	80-110	280-350	≥200	≥12	≤0.020
Hard	≥110	≥340	≥280	≥4	≤0.010

## 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
<b>8.86</b>	<b>56.9</b>	<b>234</b>	<b>127</b>	<b>380</b>

## MITTAL ENGINEERING INDUSTRIES

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### 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	Good
Gas shielded arc welding	Good
Laser welding	Fair

### CORROSION RESISTANCE

MEI-95 has very low sensitivity to stress corrosion cracking.

This alloy is not sensitive to dezincification that could occur in water with high chlorine content.

This alloy is largely resistance to industrial atmosphere but not resistance to oxidizing acids

### Packaging

Standard seaworthy packaging or as per specific requirements of customer.



MEI-95 conform ROHS Directive

### TYPICAL APPLICATIONS

- Coins, Medals, Tokens
- Bullet jackets, Fuse and Primer caps, Firing pin supports
- Components in Electrical Industry, Connectors, AC Motors
- Jewelry, emblems, plaques

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