



MEI-61(CuZn38 Sn 1) ROLLED PRODUCTS

CHEMICAL COMPOSITION(%)	
Cu	59.00-62.00
Fe	≤0.1
Pb	≤0.2
Sn	0.5-1.00
Zn	REM

ALLOY DESIGNATIONS	
UNS	C46400
EN	CuZn38Sn1
JIS	C4640
BS	CZ112

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

CHARACTERISTICS

Commercial Name is Naval Brass.

MEI-61 is brass alloy with Tin content and is highly resistant to corrosion.

MECHANICAL PROPERTIES				
Temper		Tensile Strength MPa / Ksi (Min)	Yield Stress MPa/ Ksi (Min)	Elongation % (Min)
Hotrolled & annealed	025	345 /50	140/20	35
Hot rolled	H20	380/55	175/25	30
1/4 Hard	H01	480/70	400/58	10
Coldrolled & annealed	050	430/62	210/30	25

PHYSICAL PROPERTIES				
TYPICAL VALUES IN ANNEALED TEMPER AT 20 ° C				
Density	Electrical conductivity (% IACS)	Thermal Conductivity (W/m.K)	Modulus of Elasticity Gpa	Specific Heat J/kg.K
8.41	26	116	103	375

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



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Fabrication Properties

TECHNIQUE	SUITABILITY
Soldering	Excellent
Brazing	Excellent
Oxyacetylene Welding	Good
Gas Shielded Arc Welding	Fair
Coated Metal Arc Welding	Not Recommended
Spot Weld	Good
Seam Weld	Fair
Butt Weld	Good
Capacity for Being cold worked	Fair
Capacity for Being Hot Formed	Excellent
Forgeability Rating	90
Machinability Rating	30

CORROSION RESISTANCE

Wrought strengthening and the addition of tin makes MEI-61 highly resistance to dezincification, greatly inhibiting seawater corrosion at higher-than-normal temperatures. C46400 Naval Brass is resistant to wear, fatigue, galling, and stress corrosion cracking. It also offers good strength levels combined with an excellent hot formability. Its uses are mainly in seawater application such as marine hardware balls, nuts, bolts, rivets, valve stems and propeller shafts.

Packaging

Standard seaworthy packaging or as per specific requirements of customer.

TYPICAL APPLICATIONS

Precision Shipboard Equipment, Pressure Vessels, Condenser Plates, Heat Exchanger Plates, valve guides, Decorative Fitting, Turn buckles, Marine Hardware, Missile components, and Baffle Plates.

MEI-61 conform ROHS Directive

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