

HIGH TENSILE BRASS IS: 304 HTB2



C52480 HIGH TENSILE BRASS

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Equivalent Specifications:

Specifications	BS	EN	IS	JIS	DIN	ISO	Russian
Designation	-	-	HTB2	-	-	CuZn36Al4FeMn	-

Chemical Composition:

	Cu	Pb	Sn	Zn	Si	Fe	Al	Mn	Other
Min	55	-	-	-	-	1.5	3	Max	-
Max	Rem.	0.2	0.2	Rem.	0.1	3.25	6	4.0	0.2

Fabrication Properties:

Joining Technique	Suitability
Soldering	Fair
Brazing	Good
Oxyacetylene Welding	Not Recommended
Gas Shielded Arc Welding	Fair
Coated Metal Arc Welding	Not Recommended
Spot Weld	Good
Seam Weld	Good
Butt Weld	Good
Capacity for Being Cold Worked	Poor

Capacity for Being Hot Formed	Excellent
Forgability Rating	100
Machinability Rating	30

Physical Properties:

Melting Point – Liquidus °F	1625
Melting Point – Solidus °F	1819.4
Density lb./cu in. at 68°F	0.299
Specific Gravity	8.3
Electrical Conductivity% IACS at 68°F	19
Thermal Conductivity Btu/ sq. ft./ ft. hr./ °F at 68°F	36.42
Coefficient of Thermal Expansion 68-57210⁻⁶ per °F (68 – 572°F)	9
Specific Heat Capacity Btu/ lb. /°F at 68°F	0.090
Modulus of Elasticity in Tension ksi	15954

Sizes Available:

TUBES	6.35 mm to 110mm
ROUND WIRES	1 mm to 11mm
ROUND RODS	1.2 to 250 mm
HEX RODS	Min. 5 mm to Max. 60 mm
SQUARE RODS	Min. 4 mm to Max. 60 mm
FLATS	Min. 4 mm thickness and max width of 120mm
PROFILES	As per customer drawings
HOLLOW RODS	Min Bore Size 20mm and Max OD 130mm