



CW713R

HIGH TENSILE BRASS

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
UNS	C67400
BS 2872/4	CZ135
DIN	2.0550 (CuZn40Al2)
EN	CuZn37MnAl2PbSi

CW713R is a high tensile brass which is alloyed with aluminum, manganese and silicon etc. which makes this alloy almost as hard as aluminum bronze, but considerably easier to process. CW713R also has good corrosion, wear resistance and machinability.

Typically this alloy is used in the automotive and hydraulic industries in forms of products such as Bearings for high load, slide- & wear-plates, valve guides, piston parts etc.

CHEMICAL COMPOSITION

	Cu	Pb	Sn	Zn	Si	Ni	Fe	Al	Mn	Other
Min	57	0.2	-	-	0.3	-	-	1.3	1.5	-
Max	59	0.8	Max 0.4	Rem.	1.3	Max 1.0	Max 1.0	2.3	3.0	Max 0.3

PHYSICAL PROPERTIES

Melting Point – Liquidus °F	1625
Melting Point – Solidus °F	1589
Density lb./cu in. at 68°F	0.296
Specific Gravity	8.12
Electrical Conductivity% IACS at 68°F	19
Thermal Conductivity Btu/ sq. ft./ ft. hr./ °F at 68°F	36.42
Coefficient of Thermal Expansion 68-572 10 ⁻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

ROUND RODS	8mm To 100 mm
HEX	10mm To 60mm
SQUARE	10mm To 60mm
FLAT	10mm Min Thickness and max Width 120mm
BILLETS	Up to 200 mm
INGOTS	As per Specification

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