



## CW713R

## HIGH TENSILE BRASS

### EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
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 <sup>-6</sup> 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

HEX

SQUARE

FLAT

BILLETS

INGOTS

8mm To 100 mm

10mm To 60mm

10mm To 60mm

10mm Min Thickness and max Width 120mm

Up to 200 mm

As per Specification

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