CW613N

FORGING BRASS

DESCRIPTION

CW613, brass, is a readily extrudable leaded alpha/beta brass with a small Tin addition, which gives little bit of strength and resistance to corrosion. The lead gives free cutting properties. CW613 is available as extruded rods and flats which are typically used in builders' hardware.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	59.00	60.00
Pb	1.60	2.50
Sn	0.20	0.50
Fe	-	0.40
Al	-	0.10
Ni	-	0.30
Total Others	-	0.20
Zn	Remainder	

MECHANICAL PROPERTIES (AS PER TEMPER H070)

Range (mm)	From	To	UTS Min	PS Min	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	75.00	-	-	-	70.00	170.00
Hex (A/F)	3.00	70.00	-	-	-	70.00	170.00
Square (A/F)	3.00	60.00	-	-	-	70.00	170.00
Rectangle (Thickness)	3.00	50.00	-	-	-	70.00	170.00

RAJHANS METALS PRIVATE LIMITED

3985, GIDC, Phase-III, Dared, Jamnagar - 361 004. (Gujarat) INDIA. +91 2882573820 www.rajhans.com

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PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	ENGLISH
Density	0.303 lb/in3
CTE. linear	14.4 µin/in-˚F
Specific Heat Capacity	0.0908 BTU/lb-˚F
Thermal Conductivity	784 BTU-in/hr-ft^2-˚F
Melting Point	1620 – 1650 ˚F
Solidus	1620 ˚F
Liquidus	1650˚F

FABRICATION PROPERTIES

Forming	Suitability
Machinability (CuZn39Pb3 = 100 %)	80.00%
Capacity for Being Cold Worked	Poor
Capacity for Being Hot Worked	Excellent

TYPICAL USES

- Architecture
- Builders Hardware

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