6912 FLB

FORGING BRASS

DESCRIPTION

FLB, Section brass, is a readily extrudable leaded alpha/beta brass with a small aluminium addition, which gives a bright golden colour. The lead gives free cutting properties. FLB is available as extruded rods and flats which are typically used in builders' hardware.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	56.50	60.00
Pb	0.60	2.00
Fe	-	0.30
Total Others Excl Fe	-	0.75
Zn	Remainder	

MECHANICAL PROPERTIES (AS PER TEMPER HB)

Range (mm)	From	To	UTS Min (Mpa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	75.00	310.00	-	25.00	-	-
Hex (A/F)	3.00	70.00	310.00	-	25.00	-	-
Square (A/F)	3.00	60.00	310.00	-	25.00	-	-
Rectangle (Thickness)	3.00	50.00	310.00	-	25.00	-	-

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

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FABRICATION PROPERTIES

Forming	Suitability
Machinability (CuZn39Pb3 = 100 %)	95.00%
Capacity for Being Cold Worked	Poor
Capacity for Being Hot Worked	Excellent

TYPICAL USES

- Architecture
- Builders Hardware

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