

C3771

FORGING BRASS

DESCRIPTION

C3771, 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. C3771 is available as extruded rods and flats which are typically used in builder's hardware.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	57.00	61.00
Pb	1.00	2.50
Fe+Sn	-	1.00
Zn	Remainder	

MECHANICAL PROPERTIES (AS PER TEMPER BD)

Range (mm)	From	To	UTS Min (N/mm ²)	PS Min	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	6.00	75.00	315.00	-	15.00	-	-
Hex (A/F)	6.00	70.00	315.00	-	15.00	-	-
Square (A/F)	6.00	60.00	315.00	-	15.00	-	-
Rectangle (Thickness)	6.00	50.00	315.00	-	15.00	-	-

PHYSICAL PROPERTIES

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Density	0.303 lb/in ³
CTE. linear	14.4 $\mu\text{in/in-}^\circ\text{F}$
Specific Heat Capacity	0.0908 BTU/lb- $^\circ\text{F}$
Thermal Conductivity	784 BTU-in/hr-ft ² - $^\circ\text{F}$
Melting Point	1620 – 1650 $^\circ\text{F}$
Solidus	1620 $^\circ\text{F}$
Liquidus	1650 $^\circ\text{F}$

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FABRICATION PROPERTIES

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

TYPICAL USES

- > Architecture
- > Builders Hardware