C3771

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.

DOT

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)			
Cu	57.00	61.00			
Pb	1.00	2.50			
Fe+Sn	une and a	1.00			
Zn	Rema	inder			

MECHANICAL PROPERTIES ACCORDING TO H3250 JIS C3771 (AS PER TEMPER BD)

Range (Inch)	From	То	UTS Min (N/mm²)	PS Min	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	6.00	75.00	315.00	-training	15.00	a lus	
Hex (A/F)	6.00	70.00	315.00	-	15.00		- 110
Square (A/F)	6.00	60.00	315.00	- 145	15.00	- ¹¹⁰⁰	-
Rectangle (Thickness)	6.00	50.00	315.00	.551	15.00	-	1115 - SH

PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	METRIC	ENGLISH
Density	8.40 g/cc	0.303 lb/in3
CTE. linear	26.0 ųm/m-°C	14.4 ųin/in-°F
Specific Heat Capacity	0.380 J/g-°C	0.0908 BTU/lb-°F
Thermal Conductivity	113 W/m-K	784 BTU-in/hr-ft²-°F
Melting Point	880-900 °C	1620 – 1650 °F
Solidus	880 °C	1620 °F
Liquidus	900 °C	1650°F



RAJHANS METALS PRIVATE LIMITED

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FORGING BRASS

FABRICATION PROPERTIES

Technique						Suitability
Machinability (CuZn39Pb3 = 100 %)						95.00%
Capacity for Being Cold Worked		SHELL	- Little	62.	5	Poor
Capacity for Being Hot Worked	ALC: NO.	13-11 ⁻¹⁰	14		SHE	Excellent

800

TYPICAL USES

> Architecture> Builders Hardware



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