# **CW616N**

### **FORGING BRASS**

#### DESCRIPTION

CW616, 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. CW616 is available as extruded rods and flats which are typically used in builders' hardware.

#### **CHEMICAL COMPOSITION**

Elements	Min (%)	Max (%)		
Cu 🔊	57.00	59.00		
Pb	1.00	2.00		
Sn	alle and a	0.20		
Fe	une par -	0.20		
Al	0.05	0.30		
Ni	and the second of the	0.20		
Total Others	-Ster - Pr	0.20		
Zn	Rem	ainder		

#### **MECHANICAL PROPERTIES (AS PER TEMPER H080)**

Range (Inch)	From	То	UTS Min	PS Min	Elo Min (%)	Hardness Min (HV)	Hardness Max
Round (Dia)	1.5	75.00	.s - A		43° -	80.00	170.00
Hex (A/F)	3.00	70.00	Et - Hiller	4 <u>9</u> -	6	80.00	170.00
Square (A/F)	3.00	60.00	-62		- Film	80.00	170.00
Rectangle (Thickness)	3.00	50.00		- METRO		80.00	170.00

#### PHYSICAL PROPERTIES

	PHYSICAL PROPERTIES	ENGLISH		
	Density	0.303 lb/in3		
(C.S.	CTE. linear	14.4 μin/in- °F		
	Specific Heat Capacity	0.0908 BTU/lb°F		
	Thermal Conductivity	784 BTU-in/hr-ft2- °F		
2	Melting Point	1620 -1650 °F		
	Solidus	1620 °C		
	Liquidus	1650 °F		

#### RAJHANS METALS PRIVATE LIMITED

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### **FABRICATION PROPERTIES**

Forming					Suitability
Machinability (CuZn39Pb3 = 100 %)		1 MS	a Star	Challen .	95.00%
Capacity for Being Cold Worked	ALC IN STREET	ALL CARE	Parline.		Poor
Capacity for Being Hot Worked	1155	SP21	6	and the D	Excellent

#### **TYPICAL USES**

> Architecture> Builders Hardware

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