# **CW608N**

## FORGING BRASS

## DESCRIPTION

CW608N is a machining brass which combines the contrasting material Properties of machining and cold working exceptionally well. This material is therefore well established in various industries as the standard alloy for machining and cold Working.

TOT

### **CHEMICAL COMPOSITION**

Star Starte	Elements		5 .	Min (%)	CP21.		Max (%)	and the
10	Cu	> star	- SHARE	60.00		5 .	61.00	6222
	Pb			1.60			2.50	
AND THE	Sn		CINS.	J.S. M.	op.Mar.		0.20	State
	Fe			Phillip -			0.20	
	AI	ALL STREET	43-32	.5	SET MAR	ANS W	0.05	
	Ni			C METRY			0.30	
	Total Others		STER			.5	0.20	
	Zn					Remainder		

### MECHANICAL PROPERTIES ACCORDING TO EN12164 (AS PER TEMPER R410)

Range (Inch)	From	То	UTS Min (N/mm²)	PS Min (N/mm²)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	2.00	40.00	410.00	230.00	12.00		
Hex (A/F)	2.00	35.00	410.00	230.00	12.00	and the	
Square (A/F)	2.00	35.00	410.00	230.00	12.00	- ditte	-
Rectangle (Thickness	) 2.00	50.00	- ,3	- Michael	- diate	49° -	.ss

## PHYSICAL PROPERTIES

Density	8.44 g/cm <sup>3</sup>
Electrical Conductivity % IACS at 68°F	24
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	109 W/m.K
Thermal expansion coefficient	20.4 10 <sup>-6</sup> /K
Modulus of Elasticity	102 Gpa



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## **FABRICATION PROPERTIES**

Machinability (CuZn39Pb3 = 100 %)	90%
Capacity for being cold worked	fair
Capacity for being hot worked	excellent
Resistance welding (butt weld)	good
Inert gas shielded arc welding	poor
Gas welding	Poor
Hard soldering	fair
Soft soldering	excellent
Melting range	895-900 °C
Hot working	650-750 °C
Soft annealing	450-650 °C (1-3 hr)
Thermal stress relieving	200-300 °C (1-3 hr)
	Ser stille

<u>80</u>

## **TYPICAL USES**

- > Furniture
  > Window fittings
  > Valve
  > Valve parts

- > Decorative metalwork
- > Clock and instrument
- > Casings
- > Gears
- > Cams
- > Fasteners



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