

## DESCRIPTION

CW606N is a material which has been successfully used in automotive industries. It has both good machining and good cold working properties.

## CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	61.00	62.00
Pb	1.60	2.50
Sn	-	0.20
Fe	-	0.20
Al	-	0.05
Ni	-	0.30
Total Others	-	0.20
Zn	Remainder	

## MECHANICAL PROPERTIES ACCORDING TO EN12164 CW606N (AS PER TEMPER 400)

Range (Inch)	From	To	UTS Min (N/mm <sup>2</sup> )	PS Min (N/mm <sup>2</sup> )	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	2.00	20.00	400.00	200.00	12.00	-	-
Hex (A/F)	2.00	25.00	400.00	200.00	12.00	-	-
Square (A/F)	2.00	25.00	400.00	200.00	12.00	-	-



## PHYSICAL PROPERTIES

Melting Point	885°
Density	8.50g/cm <sup>3</sup>
Electrical Resistivity	0.066 x 10 <sup>-6</sup> Ωm
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	115 W/m.K
Modulus of Elasticity	105 Gpa

## FABRICATION PROPERTIES

Technique	Suitability
Hot Formability	Good
Cold Formability	Good
Cold Reduction Between anneals	50%
Machinability rating (free cutting brass = 100)	75%
Soldering	Excellent
Brazing	Good
Oxy-acetylene welding	Not recommended
Not recommended	Not recommended
Resistance welding: Spot and Seam	Not recommended
Butt Welding	Fair

## TYPICAL USES

- Fasteners
- Rivets
- Domestic appliances
- Automotive engineering
- Hose fittings
- Intricate parts such as clock components

