CW606N

LEADED BRASS

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 CW606N (AS PER TEMPER 400)

Range (mm)	From	To	UTS Min (N/mm^2)	PS Min (N/mm^2)	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	-	-

RAJHANS METALS PRIVATE LIMITED

3985, GIDC, Phase-III, Dared, Jamnagar - 361 004. (Gujarat) INDIA. +91 2882573820 www.rajhans.com

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LEADED BRASS

PHYSICAL PROPERTIES

Melting Point	885°
Density	8.50g/cm3
Electrical Resistivity	0.066 x 10-^{6}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

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