

CW605N

LEADED BRASS

DESCRIPTION

CW605N: A ductile alloy with good machinability as well as bending and cold heading properties. Suitable for bicycle spoke nipples.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	61.00	62.00
Pb	0.80	1.60
Fe	-	0.20
Sn	-	0.20
Ni	-	0.30
Al	-	0.05
Total Others	-	0.50
Zn	Remainder	

MECHANICAL PROPERTIES (AS PER TEMPER HB)

Range (mm)	From	To	UTS Min (Mpa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	75.00	340.00	160.00	25.00	90.00	140.00
Hex (A/F)	3.00	70.00	340.00	160.00	25.00	90.00	140.00
Square (A/F)	3.00	60.00	340.00	160.00	25.00	90.00	140.00

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PHYSICAL PROPERTIES

Density	8.46 g/cm ³
Melting Point	910°C
Specific heat cap at 20 °C	0.377 (kJ/kgK)
Electrical conductivity	14.7 (MS/m)
Modulus of Elasticity in (GPa)	105 (GPa)
Coef of therm exp at 20 °C	20.4 (10 ⁻⁶ /K)
Thermal Conductivity	116 W/m.K

FABRICATION PROPERTIES

Technique	Suitability
Machinability(CuZn39Pb3 = 100%)	80%
Capacity for being cold worked	poor
Capacity for being hot worked	Fair
Suitability for soldering	Excellent
Suitability for Brazing	Good

TYPICAL USES

- Precision Components Machining with Riveting operation.