CW623N

LEADED BRASS

DESCRIPTION

CW623N Leaded brass, is a significantly improved form of 60/40 brass, It is used in the mass production of brass components where maximum output and longest tool life are required, and where no further cold forming after machining is required.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	61.00	55.00
Pb	1.60	3.00
Sn	-	0.30
Fe	-	0.30
Al	-	0.05
Ni	-	0.30
Total Others	-	0.20
Zn	Remainder	

MECHANICAL PROPERTIES ACCORDING TO EN12167

No Mechanical properties for this alloy. Mechanical properties as agreed between punchers and supplier.

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PHYSICAL PROPERTIES

Electrical conductivity %IACS	25
Thermal conductivity W/(m·K)	113
Thermal expansion coefficient (0–300 °C)	10^{-6}/K 21.40
Density	8.46 g/cm3
Modulus of Elasticity	96

FABRICATION PROPERTIES

Technique	Suitability
Machinability(CuZn39Pb3 = 100 %)	80%
Capacity for being cold worked	Poor
Capacity for being hot worked	Excellent
Resistance welding (butt weld)	Fair
Gas welding	Poor
Hard soldering	Fair
Soft soldering	Excellent
Melting range	880-895 °C
Hot working	650-800 °C
Soft annealing (1-3 h)	450-600 °C
Thermal stress relieving (1-3 h)	200-300 °C

TYPICAL USES

- Builders Hardware
- Consumer
- Building
- Industrial

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