# **CW621N**

## LEADED BRASS

#### DESCRIPTION

CW621N is a lead free material which is however quite suitable for machining Due to its structural constitution. CW621N can be therefore used as a cost-effective Replacement for conventional lead-containing machining brass provided that it must not meet high requirements as regards mechanical properties and corrosion Resistance.

Elements	Min (%)	Max (%)
Cu	57.00	59.00
Pb	0.20	0.80
Sn	and the state - set	0.30
Fe	and - and a	0.30
Al	0.05	0.50
Ni 5	MEAN WAS - ROAM	0.30
Total Others	and the second second	0.20
Zn	Remai	inder

### **CHEMICAL COMPOSITION**

### **MECHANICAL PROPERTIES (AS PER TEMPER M)**

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

## **RAJHANS METALS PRIVATE LIMITED**

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### **PHYSICAL PROPERTIES**

Electrical conductivity %IACS	31
Thermal conductivity W/(m·K)	139
Thermal expansion coefficient (0–300 °C)	10- <sup>6</sup> /K 21.70
Density	8.41 g/cm3
Modulus of Elasticity	107 Gpa 👝

#### **FABRICATION PROPERTIES**

	Technique	Suitability
	Machinability(CuZn39Pb3 = 100 %)	60%
6	Capacity for being cold worked	Poor
	Capacity for being hot worked	Excellent
	Resistance welding (butt weld)	Good
7	inert gas shielded arc welding	Fair
	Gas welding	Fair
	Hard soldering	Good
	Soft soldering	Excellent
	Melting range	870-900 °C
	Hot working	650-750 °C
	Soft annealing (1-3 h)	450-550 °C
į	Thermal stress relieving (1-3 h)	250-350 °C
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### **TYPICAL USES**

- > Builders Hardware
- > Consumer
- > Building
- > Industrial

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