# CW604N

## LEADED BRASS

#### DESCRIPTION

CW604N are the standard materials for machining (machining index 100 %). These alloys are also particularly suitable for hot stamping when the forged parts are subsequently machined extensively. Is recommended for applications where cold working with little reduction such as knurling is used. The ductility of this material makes it particularly suitable for the manufacture of wires as well as rods and sections.

	Elements	ALS AND MALE	- Briter	Min (9	%)				Max (%)		
MEIP	Cu	BUIL		62.00	O INS	e pu	(h.		64.00	CIN'S	
Althous	Pb	15	MET	0.10	6800		.5	METP	0.80	0 Miles	BUILD
69	Fe	-S MELT	- AJHANDS				MET PALE	HANS	0.10		. C.
ETALS	Sn	RAJHAN	40	12-	SMEIN	Althan		C.C.	0.20	5	METAL
. ANS MIL	an <sup>384</sup> Ni	6	of this	MSME -	egyphon.	40		THIS	0.30		althan
Seg.	Al	METALS	ANS MAN	P.B.SHI		1. A	\$P	MS ME	0.50		<u>Co</u>
	Total Other	'S ME P	2	.s	METAL	ANS	231	C.C.	0.20		1 Mes
C MIET	Zn S	2	5	ME PROVIDENT	1011ST	Remai	nder	6	of this	2	No Miles

## CHEMICAL COMPOSITION

### **MECHANICAL PROPERTIES (AS PER TEMPER R370)**

Range (Inch)	From	То	UTS Min (N/mm <sup>2</sup> )	UTS Max (N/mm <sup>2</sup> )	PS Min	Elongation Min (%)	Hardness Min (HRB)	
Round (Dia)	1.5	6.00	370.00	440.00	5	19	5 - RR	-

### **RAJHANS METALS PRIVATE LIMITED**

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#### **PHYSICAL PROPERTIES**

Melting Point - Liquidus°F	1700
Melting Point - Solidus°F	1650
Densitylb/cu in. at 68°F	0.306
Specific Gravity	8.47
Electrical Conductivity% IACS at 68°F	26
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	67
Coefficient of Thermal Expansion 68-57210- <sup>6</sup> per °F (68 – 572°F)	11.3
Specific Heat CapacityBtu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tensionksi	15000
Modulus of Rigidityksi	5600

### **FABRICATION PROPERTIES**

Technique	Suitability				
Soldering	Excellent				
Brazing	Good				
Oxyacetylene Welding	Fair				
Gas Shielded Arc Welding	Fair				
Coated Metal Arc Welding	Not Recommended				
Spot Weld	Fair				
Seam Weld	Not Recommended				
Butt Weld	Fair				
Capacity for Being Cold Worked	Good				
Capacity for Being Hot Formed	Poor				
Machinability Rating	60				
20 AV					

## TYPICAL USES

- > Automotive
- > Builders Hardware
- > Consumer
- > Fasteners
- > Industrial
- > Ordnance
- > Plumbing

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