CW604N

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.

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	Elements	Min (%)	Max (%)
- WEIN	Cu	62.00	64.00
	Pb	0.10	0.80
~	Fe		0.10
CINS	Sn	the start as	0.20
AND DE	Ni	alle and a state	0.30
Span.	Al	unite the statement	0.50
3	Total Others	19 - All 19 - All 19	0.20
CHIEF S	Zn	Re	mainder

CHEMICAL COMPOSITION

MECHANICAL PROPERTIES ACCORDING TO EN1652 (AS PER TEMPER R370)

Range (Inch)		From	То		UTS Max (N/mm ²)	DC Min	Elongation Min (%)	Hardness Min (HRB)	Hardness Max (HRB)
Round (Dia)	3	1.5	6.00	370.00	440.00	.s.=	19	St - phil	-



RAJHANS METALS PRIVATE LIMITED

CW604N

LEADED BRASS

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 ⁻⁶ 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
	Melting Point - Solidus°F Densitylb/cu in. at 68°F Specific Gravity Electrical Conductivity% IACS at 68°F Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F Coefficient of Thermal Expansion 68-57210 ⁶ per °F (68 – 572°F) Specific Heat CapacityBtu/ lb /°F at 68°F Modulus of Elasticity in Tensionksi

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			
30				

TYPICAL USES

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



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