DESCRIPTION

CW609N, Free cutting brass, is a significantly improved form of 60/40 brass, with excellent free cutting properties. 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	57.00	59.00
Pb	3.50	4.20
Fe	Stiff Thirty - 12	0.30
Sn	dilling - The	0.30
Ni da		0.30
Al .	- 15 ¹⁷¹	0.05
Total Others	.5 .EC	0.20
Zn	Rema	inder

MECHANICAL PROPERTIES ACCORDING TO EN12164 (AS PER TEMPER R430)

Range (mm)	From	То	UTS Min (N/mm²)	PS Min	Elongation (%)	Hardness Min	Hardness Max
Round (Dia)	2.00	40.00	430.00	250.00	10.00	all the	16 - 617 Ju
Hex (A/F)	3.00	40.00	430.00	250.00	10.00	THE - DET.	-
Square (A/F)	3.00	40.00	430.00	250.00	10.00	-	6
Rectangle (Thickness)	3.00	40.00	430.00	250.00	10.00	.s = .s	This - Mile his

PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1630
Melting Point - Solidus°F	1610
Densitylb/cu in. at 68°F	0.306
Specific Gravity	8.47
Electrical Conductivity% IACS at 68°F	28
Thermal ConductivityBtu/ sq ft/ ft hr/ °I	F at 68°F 71
Coefficient of Thermal Expansion 68-57 per °F (68 – 572°F)	210-6
Specific Heat CapacityBtu/ lb /°F at 68°l	F 0.09
Modulus of Elasticity in Tensionksi	14000
Modulus of Rigidityksi	5300
AN SO	350

FABRICATION PROPERTIES

Suitability			
Excellent			
Good			
Not Recommended			
Fair			
Poor			
Excellent			
90			

TYPICAL USES

- > Architecture
- > Builders Hardware
- > Consumer
- > Industrial
- > Ordnance