DESCRIPTION

CW608N is a machining brass which combines the contrasting material Properties of machining and cold working exceptionally well. This material is therefore well established in various industries as the standard alloy for machining and cold Working.

CHEMICAL COMPOSITION

Elements		Min (%)			Max (%)			
Cu	E HE P	60.00	.5	METAL	61.00	BUTT		
Pb	BUTTER ST	1.60	15 METH	o'lifulità	2.50	. &5		
Sn	E IALS	ME ME	FIHUL		0.20	15 MEIN CASHI		
Fe 5	ME ALS MA	Philips -		I. I. I. I. I.	0.20	THIN F.		
Al ^M	HHURE , BUT	, <u>=</u>	METAL	TE BUT	0.05	c. 4		
IIE HELL OF THE NI		EMETA- IHAN	P. Bry		0.30	UK IALS III III III		
Total Others	THE SHE!	_ RIHAM		als si	0.20	b Ban		
Zn	Sally Bally	Remainder						

MECHANICAL PROPERTIES (AS PER TEMPER R410)

Range (Inch)	From	То	UTS Min (N/mm²)	PS Min (N/mm ²)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	2.00	40.00	410.00	230.00	12.00		all P
Hex (A/F)	2.00	5 35.00	410.00	230.00	12.00	ME-IN	HUID - HUI
Square (A/F)	2.00	35.00	410.00	230.00	12.00	HANS - 6	_
Rectangle (Thickness)	2.00	50.00	- 5	- WEIT		61b.2.	S - 3

PHYSICAL PROPERTIES

Density	40	, MS	, s META	3	8.44 g/cm ³
Electrical Conductivity % IACS at 68°F	ETALS.	" Partie la	a Authania	4	24
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	TENE INTE	PUHA			109 W/m.K
Thermal expansion coefficient	Ply Jugar	S	W. Hr.	III S	20.4 10- ⁶ /K
Modulus of Elasticity	5	MEIRI	IHANE	B.B.JL	102 Gpa

FABRICATION PROPERTIES

Machinability (CuZn39Pb3 = 100 %)	90%
Capacity for being cold worked	fair
Capacity for being hot worked	excellent
Resistance welding (butt weld)	good
Inert gas shielded arc welding	poor
Gas welding	Poor
Hard soldering	fair
Soft soldering	excellent
Melting range	895-900 °C
Hot working	650-750 °C
Soft annealing	450-650 °C (1-3 hr)
Thermal stress relieving	200-300 °C (1-3 hr)

TYPICAL USES

- > Furniture
- > Window fittings
- > Valve
- > Valve parts
- > Decorative metalwork
- > Clock and instrument
- > Casings
- > Gears
- > Cams
- > Fasteners