DESCRIPTION

C28000 is a lead free material which is however quite suitable for machining Due to its structural constitution. C28000 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

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)		
Cu	59.00	63.00		
Pb	, 11.5 E. HE. TH	0.30		
Fe	at the state of th	0.07		
Total Others	shifte - This se	0.30		
Zn	Remai	inder		

MECHANICAL PROPERTIES ACCORDING TO ASTM B36 (AS PER TEMPER H02)

Range (Inch)	From	То	UTS Min (ksi)	UTS Max (ksi)	PS Min	Elongation Min (%)	Hardness Min (HRB)	Hardness Max (HRB)
Round (Dia)	0.059	2.953	58.00	70.00	-	/h/2	52.00	80.00
Hex (A/F)	0.118	2.756	58.00	70.00	A Mile	JETH - OF	52.00	80.00
Square (A/F)	0.118	2.362	58.00	70.00	- 9h	-	52.00	80.00

MECHANICAL PROPERTIES ACCORDING TO ASTM B36 (AS PER TEMPER H02)

	Range (Inch)	From	То	UTS Min (Mpa)	UTS Max (Mpa)	PS Min	Elongation Min (%)	Hardness Min (HRB)	Hardness Max (HRB)
William.	Round (Dia)	1.5	75.00	400.00	485.00	-	- 4115	52.00	80.00
	Hex (A/F)	3.00	70.00	400.00	485.00	-/11/2	.6.3MC	52.00	80.00
	Square (A/F)	3.00	60.00	400.00	485.00	-12 M	chillips -	52.00	80.00

LEAD FREE BRASS

PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1660
Melting Point - Solidus°F	1650
Densitylb/cu in. at 68°F	0.303
Specific Gravity	8.39
Electrical Conductivity% IACS at 68°F	28
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	71
Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F)	11.6
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tensionksi	15000
Modulus of Rigidityksi	5600
VIII, TP, TP	

FABRICATION PROPERTIES

Suitability
Excellent
Excellent
Good
Fair
Not Recommended
Good
Not Recommended
Good
Fair
Excellent
90
40

TYPICAL USES

- > Fasteners
- > Industrial
- > Architecture
- > Builders Hardware