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 (%)			
	(6)	Cu	JHRII ²	billing.	59.00	all! Is	i. Walls III	Plent.	63.00	.6	
ò	NE ME	Pb	67.	ALS	E META	JHANIS .	4Pr.		0.30	HARE	
	P.B.HHA	Fe	TALS	OR WELL	ahilihin -	62.	, MS	S NET P	0.07	blb3,	
		Total Others	I ANE MIL	PEPIHA	-		AS AFE.	GR.HAMP	0.30		
	METAL	Zn	Plantin	G.	WE PALS	THE MILE	Remainder			NS ME	

MECHANICAL PROPERTIES (AS PER TEMPER HO2)

Range (Inch)	From	То	UTS Min (ksi)	UTS Max (ksi)	PS Min	Elongation Min (%)		Hardness Max (HRB)
Round (Dia)	0.059	2.953	58.00	70.00		THIS .	52.00	80.00
Hex (A/F)	0.118	2.756	58.00	70.00	ETAL ²	WE HILL - OWILL	52.00	80.00
Square (A/F)	0.118	2.362	58.00	70.00	- 6B	-	52.00	80.00

MECHANICAL PROPERTIES (AS PER TEMPER HO2)

	Range (Inch)	From	То	UTS Min (Mpa)	UTS Max (Mpa)	PS Min	Elongation Min (%)		Hardness Max (HRB)
INE	Round (Dia)	1.5	75.00	400.00	485.00	-	- 1015	52.00	80.00
	Hex (A/F)	3.00	70.00	400.00	485.00	-14/2	us alle	52.00	80.00
5	Square (A/F)	3.00	60.00	400.00	485.00	WE WILL	erithin -	52.00	80.00

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

FABRICATION PROPERTIES

Technique	Suitability
Soldering	Excellent
Brazing	Excellent
Capacity for being hot worked	Good
Gas Shielded Arc Welding	Fair
Coated Metal Arc Welding	Not Recommended
Spot Weld	Good
Seam Weld	Not Recommended
Butt Weld	Good
Capacity for Being Cold Worked	Fair
Capacity for Being Hot Formed	Excellent
Forgeability Rating	90
Machinability Rating	40

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