DESCRIPTION

C27000. These brasses have relatively good corrosion resistance, are moderately high in strength, and in some forms, have very good ductility. They are available in many forms including rod, bar, sheet, plate and more.

CHEMICAL COMPOSITION

S. C.		Elements		5 MET	Min (%)				Max (%)		
	62,	Cu	· SMETH	- Cilland	63.00		S ME	HANS	68.50	7	
	EINES	Pb	G.R.JHAIR	- Pri	- ALS	SME	P. C. HELLS	High	0.10	5	, ME
?	INE ME	Fe		EINES	ME ME	R.A.JHATT	49	A P	9 0.70	META	CHUINS
BUT	7	Total Others	of this	JANS PILL	BUTTE		CINIS	WE WE	0.30		60
	15	Zn	HANS	Brille	. %	allETAL 2	Remainder	FIFTH			EINS

MECHANICAL PROPERTIES (AS PER TEMPER HO2)

, <u>1</u> 5	Range (Inch)	From	To	UTS Min (Mpa)	UTS Max (Mpa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max
WELL.	Round (Dia)	1.5	12.00	545.00	650.00	-	_	NET PUZ	THE MILE - ENTH
	Hex (A/F)	s 3.00 ,	12.00	545.00	650.00	<u>-</u>	nETAL ²	Property - Bull	_
	Square (A/F)	3.00	12.00	545.00	650.00	METALL.	WAR - BUTH	-	- >

PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1710
Melting Point - Solidus°F	1660
Densitylb/cu in. at 68°F	0.306
Specific Gravity	8.47
Electrical Conductivity% IACS at 68°F	27
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 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	Excellent
Capacity for Being Hot Formed	Poor
Machinability Rating	30 MILIALS

- > Architecture
- > Automotive
- **Builders Hardware**
- > Fasteners
- Industrial
- Marine
- Plumbing