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

Elements	Min (%)	Max (%)		
Cu	63.00	68.50		
Pb	- 15 E.HETT	0.10		
Fe	The see of the state of the second	0.70		
Total Others	Julis He Ballin	0.30		
Zn	Rem	nainder		

MECHANICAL PROPERTIES ACCORDING TO UNS J463 (AS PER TEMPER H02)

	Range (Inch)	From	То	UTS Min (Mpa)	UTS Max (Mpa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max
357	Round (Dia)	1.5	12.00	545.00	650.00	777	-	_ (N)2_	us ille - chille
	Hex (A/F)	3.00	12.00	545.00	650.00	-		Elin - Oli	-
	Square (A/F)	3.00	12.00	545.00	650.00	.E.IND	THE 18 - HATT	-	-

LEAD FREE BRASS

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
	Melting Point - Solidus°F Densitylb/cu in. at 68°F Specific Gravity Electrical Conductivity% IACS at 68°F Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F) Specific Heat Capacity Btu/ lb /°F at 68°F Modulus of Elasticity in Tensionksi

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			

TYPICAL USES

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

