#### **DESCRIPTION**

C2800 is a lead free material which is however quite suitable for machining due to its structural constitution. C2800 can be 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	, (C)	0.10
Fe	- 5	0.07
Zn	Remai	nder

## **MECHANICAL PROPERTIES (AS PER TEMPER BD)**

Range (mm)	From	То	UTS Min (Mpa)	PS Min	Elongation Min (%)	Hardness Min (HV)	Hardness Max
Round (Dia)	1.5	75.00	375	-	10	" " " " " " " " " " " " " " " " " " "	-
Hex (A/F)	3.00	70.00	375	F - 6	10	-	25
Square (A/F)	3.00	60.00	375		10	7.50	
Rectangle (Thickness)	3.00	50.00	375	-	10		-

## **PHYSICAL PROPERTIES**

Melting Point - Liquidus°F	1660	
Melting Point - Solidus°F	1650	
Density Ib/cu in. at 68°F	0.303	
Specific Gravity	8.39	
Electrical Conductivity % IACS at 68°F	28	
Thermal Conductivity Btu/ 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 Tension ksi	15000	
Modulus of Rigidity ksi	5600	

# **TYPICAL USES**

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

## **FABRICATION PROPERTIES**

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