#### **DESCRIPTION**

C67420 is a special brass with very high wear resistance due to silicides embedded in the structure. This alloy is used for slide bearings and valve guides as well as for construction components in mechanical engineering. C67420 is also highly suitable for hot stamped parts requiring higher mechanical strength and higher Wear resistance.

#### **CHEMICAL COMPOSITION**

Elements	Min (%)	Max (%)
Cu	57.00	58.50
Pb. Pb.	0.25	0.80
Sn	LINE WENT BUILD	0.35
Al S	1.00	2.00
Fe Fe Hilling	0.15	0.55
Mn	1.50	2.50
ALLER NI NI	HE HE L	0.25
Si	0.25	0.70
Total Others	E IETALS - JOHN PALIFIE	0.50
Zn S	Rema	ninder gelijk

### **MECHANICAL PROPERTIES (AS PER TEMPER Ho2)**

Range (Inch)	From	То	UTS Min (ksi)	PS Min (ksi)	Elo Min (%)	Hardness Min (HRB)	Hardness Max (HRB)
Round (Dia)	0.059	2.953	87	46	15	85	-
Hex (A/F)	0.118	2.756	87	46	15	85	als - AllETIN
Square (A/F)	0.118	2.362	87	46	15	85	- Happ
Rectangle (Thickness)	0.118	1.968	87	46	15	85	<u> </u>

Range (mm)	From	То	UTS Min (Mpa)	PS Min (Mpa)	Elo Min (%)	Hardness Min (HRB)	Hardness Max (HRB)
Round (Dia)	1.5	.75	600	317	15	85	INE III PA
Hex (A/F)	5 3	70	600	317	_ 15	85	Pilitin -
Square (A/F)	3 44	50	60	600	317	15	_
Rectangle (Thickness)	3	50	600	317	15	85	METAL ME

# **PHYSICAL PROPERTIES**

Melting Point - Liquidus°F	1650		
Melting Point - Solidus°F	1590		
Density lb/cu in. at 68°F	0.299		
Specific Gravity	8.27		
Electrical Conductivity % IACS at 68°F	18		
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F			
Coefficient of Thermal Expansion 68-57210 <sup>-6</sup> per °F (68 – 572°F)	11		
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09		
Modulus of Elasticity in Tension ksi	14000		
Modulus of Rigidity ksi	5250		
500			

# **FABRICATION PROPERTIES**

Technique	Suitability		
Soldering	Fair		
Brazing	Good		
Oxyacetylene Welding	Not Recommended		
Gas Shielded Arc Welding	Fair		
Coated Metal Arc Welding	Not Recommended		
Spot Weld	Good		
Seam Weld	Good		
Butt Weld	Good		
Capacity for Being Cold Worked	Poor		
Capacity for Being Hot Formed	Excellent		
Forgeability Rating	100		
Machinability Rating	50		

### **TYPICAL USES**

> Industrial