## C27451

### LEAD FREE BRASS

### DESCRIPTION

C27451is a lead free material suited for the use in drinking water applications. C27451 can be used where no high mechanical stresses occur. Uses: A ductile alloy suitable for blanking, riveting, bending, hot forging and pressing, hot heading, up-setting large nuts & bolts and brazing rods.

### **CHEMICAL COMPOSITION**

6 Prov.	Elements S			Min (%)	)			Max (%)	
	Cu	HAMPS	6800	61.00	MER	AND THE REAL OF TH	Barley	65.00	
2 MENT	Pb	62	a la	SWEP	JHANS	C. B.		<sub>S</sub> 0.25	HUNSTIN
BUILT	Fe	THE	NS ME	aphilippin -	62.	ALS.	SWE	0.35	6900
<u>م</u>	Total Others	ANSMI	PROJECT	-	ET MIS	THE ME T	S.A.J.HART	0.50	and the second s
METAL	Zn	Strip.	6	AL INS	, MIS MIL	Remainder		(ALS	NS MET
	- 23			C Mr.	10.		. Ś.	Sec. 1	- Store

#### **MECHANICAL PROPERTIES ACCORDING TO ASTM B124**

Mechanical property requirement, if any, are to be established by agreement between the manufacturer and the purchaser.

### **RAJHANS METALS PRIVATE LIMITED**

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### **PHYSICAL PROPERTIES**

Melting Point - Liquidus°F	1680
Melting Point - Solidus°F	1650
Densitylb/cu in. at 68°F	0.31
Specific Gravity	8.44
Electrical Conductivity% IACS at 68°F	22.8
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	67
Coefficient of Thermal Expansion 68-57210- <sup>6</sup> per °F (68 – 572°F)	11.4
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tensionksi	15000
Modulus of Rigidityksi	5500
Magnetic Permeability	1
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### **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	Excellent			
Machinability Rating	95			
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### TYPICAL USES

> Plumbing

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