C37000

DESCRIPTION

C37000, Engraving brass, are 60/40 alpha-beta brasses with lead added to give free machining properties. They should not be used for acid etched work, for which the single phase alpha brasses should be used.

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CHEMICAL COMPOSITION

5	Elements	Min (%)	Max (%)
	Cu	59.00	62.00
	Pb	0.8	1.50
	Fe	All and a set of the second second	0.15
4	Total Others		0.40
	Zn	Remai	nder 🔊

MECHANICAL PROPERTIES ACCORDING TO ASTM B124

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



C37000

LEADED BRASS

PHYSICAL PROPERTIES

1	Melting Point - Liquidus°F	1650
I	Melting Point - Solidus°F	1630
	Densitylb/cu in. at 68°F	0.304
	Specific Gravity	8.41
[Electrical Conductivity% IACS at 68°F	27
2	Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	69
	Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F)	11.6
(Specific Heat CapacityBtu/ lb /°F at 68°F	0.09
I	Modulus of Elasticity in Tensionksi	15000
Ś	Modulus of Rigidityksi	5600

FABRICATION PROPERTIES

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P	Technique	Suitability
	Soldering	Excellent
	Brazing	Good
	Oxyacetylene Welding	Not Recommended
	Gas Shielded Arc Welding	Not Recommended
	Coated Metal Arc Welding	Not Recommended
	Spot Weld	Not Recommended
	Seam Weld	Not Recommended
	Butt Weld	Fair
	Capacity for Being Cold Worked	Fair
	Capacity for Being Hot Formed	Excellent
	Machinability Rating	70
	SD	

TYPICAL USES

> Automatic Screw Machine Parts



RAJHANS METALS PRIVATE LIMITED