C3604

FREE MACHINING BRASS

DESCRIPTION

C3604, Free cutting brass, is a significantly improved form of 60/40 brass, with excellent free cutting properties. It is used in the mass production of brass components where maximum output and longest tool life are required, and where no further cold forming after machining is required.

CHEMICAL COMPOSITION

5	Elements	S HING	Supple	Min (%	5)	Phil and the second		Max (%)	
LE MEIT	Cu	632	S	57.00	HANST	48-3		61.00	1.2 July
SPOH PAR	Pb	THIS	-15 MET	1.80	62.		CMET	3.70	BUJ
	Fe	MS ME	Alther		ANS.	SS MEIT	CALIFIAND	0.50	le la
METALS	Sn+Fe	Ballen	6	ETALS -	MEME	Phillippi	14	1.20	NSMEL
alland i	Zn Zn	S	METAL	.upps http://www.ph	264	Remainder	NET MIS	NS ME	BAJHAN

MECHANICAL PROPERTIES (AS PER TEMPER BD)

Range (mm)	From	То	UTS Min (Kg/mm²)	PS Min	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	75.00	335.00		NIC-DIFF	80.00	-
Hex (A/F)	3.00	70.00	335.00	NTS MIC	apultar -	80.00	All - Le
Square (A/F)	3.00	60.00	335.00	Phillip	-	80.00	SME - Althou
Rectangle (Thickness)	3.00	50.00	335.00	-	all the	80.00	-

RAJHANS METALS PRIVATE LIMITED

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PHYSICAL PROPERTIES

	1.55			
Melting Point - Liquidus°F	1630			
Melting Point - Solidus°F	1610			
Densitylb/cu in. at 68°F	0.306			
Specific Gravity	8.47			
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 CapacityBtu/ lb /°F at 68°F				
Modulus of Elasticity in Tensionksi				
Modulus of Rigidityksi	5300			

FABRICATION PROPERTIES

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	Poor
Capacity for Being Hot Formed	Excellent
Machinability Rating	90

TYPICAL USES

- > Architecture
- > Builders Hardware
- > Consumer
- > Industrial
- > Ordnance

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