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.

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CHEMICAL COMPOSITION

3	Elements	and the second	4 point	Min (%)	THE SHE WAS	M	lax (%)	
SWEIT	Cu	62.	3	57.00	623.		61.00	
and the second	Pb		SHEIM	1.80	5		3.70	
	Fe		al all and a second	- ,12	SWEIT		0.50	
SET ALS	Sn+Fe	No.		and - and	a half have	<i>da</i> .	1.20	SHELL
AND C	Zn		Section 2		Remainder			

MECHANICAL PROPERTIES ACCORDING TO H3250 JIS C3604 (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	- 112	S.S.	80.00	-
Hex (A/F)	3.00	70.00	335.00	55	opple -	80.00	19 - 16
Square (A/F)	3.00	60.00	335.00	-2.5°	-	80.00	Star - Star
Rectangle (Thickness)	3.00	50.00	335.00	-	112	80.00	-



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PHYSICAL PROPERTIES

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	28
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	9 71
Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F)	11.6
Specific Heat CapacityBtu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tensionksi	14000
Modulus of Rigidityksi	5300

FABRICATION PROPERTIES

200

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
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TYPICAL USES

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



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