

BRASS AS-1567 -385, C38500
(FREE MACHINING BRASS)
WROUGHT PRODUCT, EXTRUDED ROD & BAR



ABOUT

A high speed machining, general purpose brass.

EQUIVALENT TO

Britain	BS-22874 – CZ112
USA	ASTM -C38510
Japan	JIS- H-3250-C3603
Germany	DIN17660-CuZn39Pb3

APPLICATIONS

- General purpose components, repetition machined parts.

Nominal Composition	
Copper %	58.00
Lead %	4.00
Tin %	---
Zinc %	38.0

Typical Mechanical Properties		Temper: Drawn		
		Up to 13 mm	13 to 50 mm	Over 50 mm
	Size			
Tensile	MPa	495	430	400
0.2% Proof Stress	MPa	310	230	155
Elongation % (5.65)		20	27	35
Hardness	HV	160	135	110
Shear Strength	MPa	310	280	250

Physical Properties			Corrosion Resistance	
Melting Point °C	875	Rural Atmosphere	Excellent	
Density kg/m3	8470	Industrial Atmosphere	Good	
Electrical Conductivity % IACS	26	Marine Atmosphere	Fair - Good	
Modulus of Elasticity MPa	103000	Sea Water	Fair	
		Drinking Water	Fair - Good	
Fabrication Data			Joining	
Machinability (brass = 100%)	100 %	Oxy- Acetylene welding	Not Recommended	
Riveting & Peening	Not Recommended	Coated Metal Arc Welding	Not Recommended	
Thread Rolling	Not Recommended	Carbon Arc Welding	Not Recommended	
Cold Heading	Not Recommended	Gas Shielded Arc Welding (Tig & Mig)	Not Recommended	
Bending (cold)	Fair	Soft Soldering	Excellent	
Hot Forging	Fair - Good	Silver Soldering	Good	
Hot Forging Temp °C	725			
Annealing °C	550			
Stress Relieving °C	275			