

COPPER AS-1567 -377, C37700
(FORGING BRASS)
WROUGHT PRODUCT, EXTRUDED ROD & BAR



ABOUT

C377 is a forging brass.

EQUIVALENT TO

Britain	BS-22872 – CZ122
USA	ASTM -B124-C37700
Japan	
Germany	DIN17660-CuZn40Pb2

APPLICATIONS

- General purpose brass for forged or hot stamped parts.

Nominal Composition	
Copper %	58.0
Lead %	1.75
Aluminium %	---
Zinc %	40.25

Typical Mechanical Properties		Temper: As Extruded		
		All Sizes		
Size				
Tensile	MPa	415		
0.2% Proof Stress	MPa	215		
Elongation % (5.65)		35		
Hardness	HV	115		
Shear Strength	MPa	230		

Physical Properties			Corrosion Resistance	
Melting Point °C	880	Rural Atmosphere	Excellent	
Density kg/m ³	8440	Industrial Atmosphere	Good	
Electrical Conductivity % IACS	27	Marine Atmosphere	Fair - Good	
Modulus of Elasticity MPa	100000	Sea Water	Fair	
		Drinking Water	Fair - Good	
Fabrication Data			Joining	
Machinability (brass = 100%)	85 %	Oxy- Acetylene welding	Fair	
Riveting & Peening	Fair	Coated Metal Arc Welding	Not Recommended	
Thread Rolling	Fair - Good	Carbon Arc Welding	Not Recommended	
Cold Heading	Fair	Gas Shielded Arc Welding (Tig & Mig)	Not Recommended	
Bending (cold)	Good	Soft Soldering	Excellent	
Hot Forging	Excellent	Silver Soldering	Good	
Hot Forging Temp °C	675			
Annealing °C	550			
Stress Relieving °C	225			