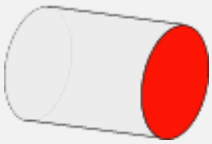
ENGINEERING STEELS + ALLOYS

385 BRASS

Brass alloy 385 has been specifically developed for the mass production of brass components in high speed lathes,providing maximum output and long tool life.
Typical applications are nuts, bolts and screw threads.

Colour Code	Stocked Sizes	
Red (Bar End) 	Rounds	4.76 mm to 101.6 mm diameter
	Squares	9.52 mm to 50.8 mm A/F
	Hexagons	9.52 mm to 44.45 mm A/F
	Bar Finish	
	Cold Drawn	

Related Specifications	
Australia	AS 1567-385
Germany	DIN 1.7672 CuZn39Pb3
Great Britain	BS 2847-CZ121
USA	ASTM B455 UNS C38510

Chemical Composition		
	Min. %	**Max. %**
Copper	56	60
Lead	2.5	4.50
Zinc		Remainder

Typical Mechanical Properties	
Tensile Strength Mpa	400
Yield Strength Mpa	200
Elongation %	20
Hardness HV	135

Heat Treatment	
Annealing	Heat to 425ºC - 600ºC, hold until temperature is uniform throughout the section and cool in furnace.
Stress Relieving	Heat to 250ºC - 300ºC, hold until temperature is uniform throughout the section.
	Check Test Certificate if critical for end use.

Hot Working

Fair hot working properties within an ideal temperature range of 700ºC to 800ºC.

Cold Working

Exhibits poor cold working properties, and cold heading is not recommended.

Machining

A free cutting brass specifically developed for maximum output and longest tool life, ideally suited for mass produced brass components.

Corrosion Resistance
Has good corrosion resistance to weathering, with a fair resistance to many waters. It should not be used in contact with ammonia, or ammonia compounds, as it may suffer stress corrosion cracking.
Plating
Provides good surface finish through either polishing, and/or electroplating.
Joining Properties
Soldering - Whilst good results can be achieved from Silver soldering, better results can be achieved from Soft soldering. Brazing - Good results can be achieved from brazing. Welding - Fair results can be achieved from both Oxy acetylene & Carbon arc welding. However Gas shielded and coated metal arc welding, and resistance welding is not recommended.

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