

Product Information Sheet

ISSUE E

ALLOY 385

A. W. Fraser Alloy 385 is a high speed turning and screwing brass conforming to the requirements of A.S. 1567 alloy 385.

385 has been developed for use where maximum output and longest tool life are essential on high speed automatics.

The composition of A. W. Fraser alloy 385 is strictly controlled as are the extrusion and finishing operations to achieve a constant standard of quality, properties and structure. All extrusions are manufactured from continuous cast billet stock ensuring uniform dispersion of lead particles and freedom from porosity.

Alloy 385 is susceptible to dezincification under certain conditions and is classified a category III alloy.

ALLOY 385 - FREE MACHINING BRASS

SUMMARY OF PROPERTIES

Chemical Composition - percent	[Typical]	AS/NZS 1567 Specification
Element		
Copper Cu	58.0	56.0 – 60.0
Lead Pb	3.5	2.5 – 4.5
Zinc Zn	Balance	Balance
Total Impurities	0.8 maximum	

Mechanical Properties [Typical]

	Drawn
Yield Strength	200 Mpa (29,000 psi)
Ultimate Tensile Strength	400 Mpa (58,000 psi)
Elongation	20%
Typical Hardness	135 VPN
Specific Gravity	8.5
Machinability	Excellent
Cold Working	Not Recommended
Hot Working	Good

Comparative Specifications

BS2874 - CZ121-4Pb; EN 12449 – CuZn39Pb3 (CW614N)*; UNS C38510

* Similar but not identical.