

Product Information Sheet

ISSUE A

ALLOY 486

A. W. Fraser Alloy 486 is a leaded arsenical brass with dezincification resistant properties conforming to the requirements of Australian Standard A.S. 1567 alloy 486.

486 is primarily a machining brass having good machining characteristics.

The composition of A. W. Fraser alloy 486 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.

To ensure optimum dezincification resistance, batches of 486 are heat treated prior to despatch.

Batches of 486 extrusions are tested after heat treatment for dezincification resistance in accordance with A.S. 2345 - 1992.

Note: No heating operation exceeding 550°C should be undertaken on alloy 486 as this will reduce the dezincification resistance (eg. silver soldering or brazing).

ALLOY 486 - DEZINCIFICATION RESISTANT BRASS	SUMMARY OF PROPERTIES
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Chemical Composition - percent [Typical]

Element		
Copper	Cu	61.0
Tin	Sn	1.0
Lead	Pb	1.8
Arsenic	As	0.2
Zinc	Zn	Balance

Total Impurities 0.3 maximum

Mechanical Properties [Typical]

Yield Strength
Ultimate Tensile Strength
Elongation
Typical Hardness
Specific Gravity
Machinability
Cold Working

Drawn

200 MPa (29,000 psi)
400 MPa (58,000 psi)
30%
140 VPN
8.44
Good
Fair