

Product Information Sheet

ISSUE A

ALLOY 370

A. W. Fraser Alloy 370 is a free machining brass conforming to the requirements of UNS C37000.

The lower lead content of this alloy makes it suitable for forging applications as well as machining operations.

The composition of A. W. Fraser alloy 370 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 370 is susceptible to dezincification under certain conditions and is classified a category III alloy.

ALLOY 370 - FREE MACHINING BRASS

SUMMARY OF PROPERTIES

Chemical Composition - percent [Typical]

Element		
Copper	Cu	60.0
Lead	Pb	1.0
Iron	Fe	0.15
Tin	Sn	0.2
Zinc	Zn	Balance

Total Impurities 0.8 maximum

Mechanical Properties [Typical]

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

Drawn (half-hard temper)

170 MPa (24,000 psi)
315 MPa (45,000 psi)
18%
65 Rockwell B
8.4
Good
Good
Fair

Comparative Specifications

BS2874 - CZ129 *; JIS H3250 C3712 *

* Similar but not identical