

# Product Information Sheet

ISSUE C

## ALLOY 360

A. W. Fraser Alloy 360 is a standard American high speed turning and screwing brass conforming to the requirements of ASTM B16.

360 has been developed for use where high output and tool life are essential on high speed automatics. The greater ductility of this alloy lends itself to semi-riveting and staking operations.

The composition of A. W. Fraser alloy 360 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 360 is susceptible to dezincification under certain conditions and is classified a category III alloy.

<b>ALLOY 360 - FREE MACHINING BRASS</b>	<b>SUMMARY OF PROPERTIES</b>
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<b>Chemical Composition - percent</b>	<b>[Typical]</b>	<b>ASTM B16 Specification</b>
Element		
<b>Copper</b> Cu	<b>61.0</b>	<b>60.0 – 63.0</b>
<b>Lead</b> Pb	<b>3.0</b>	<b>2.5 – 3.7</b>
<b>Iron</b> Fe	<b>0.15</b>	<b>0.35 max.</b>
<b>Zinc</b> Zn	<b>Balance</b>	<b>Balance</b>
<b>Total Impurities</b>	<b>0.7 maximum</b>	<b>-</b>

<b>Mechanical Properties</b>	<b>[Typical]</b>	<b>Drawn (half-hard temper)</b>
Yield Strength		180 MPa (26,000 psi)
Ultimate Tensile Strength		400 MPa (58,000 psi)
Elongation		20%
Typical Hardness		65 Rockwell B
Specific Gravity		8.4
Machinability		Good
Cold Working		Good
Hot Working		Fair

### Comparative Specifications

BS2874 - CZ124; UNS C36000, AS 1567 – 360, CuZn36Pb3, JIS H3250 C3601, DIN 17660 CuZn36Pb3