

NON-FERROUS METALS

DEZINCIFICATION RESISTANT BRASS-ALLOY 352

Alloy 352 Brass is a copper-zinc-lead alloy with a small addition of arsenic, having a mainly alpha phase structure in the “as used” heat treated condition, with a fine dispersion of lead particles. It has excellent machinability, good cold forming properties, with a high resistance to dezincification.

TYPICAL APPLICATIONS:

Valves, stopcocks, taps and other plumbing fittings coming in contact with chlorinated water supplies.

MACHINE RATING: 100%

JOINING METHODS

Soldering: Good
 Brazing: Good
 Welding: oxy-acetylene: Fair
 Welding: gas shielded arc: Fair
 Welding: other: Not recommended

CHEMICAL COMPOSITION

Copper	(Cu)	61 – 63%
Lead	(Pb)	1.7 – 2.8%
Arsenic	(As)	0.02 – 0.15%
Zinc	(Zn)	Remainder

RELATED SPECIFICATIONS:

AS 1567	352
ASTM / UNS	C 35330
BS 2874	CZ 132
EN CW602N	CuZn36Pb2As

FABRICATED PROPERTIES:

Hot working: Poor
 Cold working: Excellent
 Thread rolling: Excellent
 Hot working range: 700°C – 800°C
 Melting range: 875°C – 890°C

HEAT TREATMENT

Annealing: 500°C – 550°C
 Stress relieving: 250°C – 300°C

TYPICAL MECHANICAL PROPERTIES – BARS AND SECTIONS:

Condition	0.2% Proof Stress MPa	Tensile Strength MPa	Elongation %	Hardness HB	Shear Strength MPa
Cold Drawn	120 - 200	280 - 450	20 – 40	80 - 140	260

Typical Mechanical Properties are for guidance only.

Good low temperature mechanical properties.

DEZINCIFICATION: is a severe corrosion caused by unusually aggressive water supplies to the conventional duplex brasses, resulting in a weak porous structure.

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