

Kormax Alloy 385 FREE MACHINING BRASS

Material Data Sheet

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

Chemical Composition (%)

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Element			AS/NZS 1567 Specification
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

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

Comparative Specifications

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

* Similar but not identical.

Notes for the user: The values given in this data sheet are based on a sheet with a 40mm thickness. Depending on the thickness the technical values may vary during processing.

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