

Kormax Alloy LG2 Leaded Gunmetal Bronze

Material Data Sheet

LG2 Bronze is one of the most used grades of bronze in industry. It has medium strength, excellent machining properties, and is suitable for bearings, gears and other components used in relatively light-duty applications. Although LG2 is often referred to as phosphor bronze, it is, in fact, leaded gunmetal. Only the "PB" group of bronzes (PB1, PB2 etc.) can genuinely be called phosphor bronze.

Chemical Composition (%)

Element		Nominal
Tin	Sn	4.0 - 6.0 4.4
Lead	Pb	3.5 - 4.0 3.8
Zinc	Zn	4.0 - 6.0 5.5
Nickel	Ni	1.0 maximum
Iron	Fe	0.30 maximum
Aluminium	Al	0.01 maximum
Antimony	Sb	0.25 maximum
Copper	Cu	Balance
Total Impurities		0.80 maximum

Mechanical Properties

Yield Strength	Continuous Cast 110 MPa
Ultimate Tensile Strength	280 MPa
Elongation	20%
Typical Hardness	75 BHN
Compressive Strength 0.1% Permanent Set	100 MPa
Specific Gravity	8.8
Machinability Rating (Free Machining Brass=100)	84
Max. Operating Temperature	230°C (450°F)
Stress Relieving Temperature	260°C (500°F)
Time at Temperature	1 hour per 25mm of section thickness

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.

The technical data given in this sheet correspond to our current state of knowledge and should not be construed as an agreement or guarantee regarding certain properties of our products. The decision on the suitability of a particular material for a specific application is up to the user. We reserve the right to modify the given data. Errors of the given data are reserved. The document was produced by machine and is valid without signature.