Kormax Alloy LG2M
LEADED GUNMETAL

Material Data Sheet

Kormax Alloy LG2M is a general purpose leaded gunmetal having a modified lead range making it suitable for applications where standard LG2 cannot be used because of its higher lead content.
LG2M has excellent machining properties, medium strength, good pressure tightness and is not subject to dezincification (Category I alloy), it also has reasonable corrosion resistance to seawater and brine, making it suitable for pump and valve components.
The composition of Kormax alloy LG2M is strictly controlled as are the casting conditions. LG2M products are manufactured using the latest continuous and centrifugal casting technology.

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

	Continuous Cast
Yield Strength	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