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Email : sales@ppnonferrous.co.uk

Leaded gunmetal is the most widely used casting alloy, utilising good corrosion resistance with modest strength and excellent castability.

LG2 is the most widely used of the leaded gunmetals. It is a medium-hard material with soft soldering properties and a good resistance to seawater.

LG2 is suitable for the following uses...

- Normally stressed pump castings
- Valve seating rings
- Some sliding bearings
- Water pump impellers
- Hose couplings

LG2 is available from us in round bar and hollows in the following sizes...

Round bar: from ½" dia – 12" dia

Hollows: From 1"OD – 16" OD

Chemical & Physical Properties

Typical Chemical Composition

<i>Elements</i>	<i>Min %</i>	<i>Max %</i>
Al		0.005
Cu	Remainder	
Fe		0.30
Fe + As + Sb		0.50
Ni		1.0
P		0.05
Pb	4.0	6.0
S		0.08
Sb		0.25
Si		0.005
Sn	4.0	6.0
Zn	4.0	6.0

Typical Mechanical Properties

Property/unit	Condition	Temp	Min	Max
0.2% Proof Stress (N/mm²)	Sand Cast	RT	100	
Tensile Strength (N/mm²)	Sand Cast	RT	200	
Elongation in 5.65√Cross Section Area	Sand Cast	RT	13	
Brinell Hardness (HB)	Sand Cast	RT	66	
0.2% Proof Stress (N/mm²)	Chill Cast	RT	110	
Tensile	Chill Cast	RT	200	



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Strength (N/mm²)				
Elongation in 5.65√Cross Sectional Area %	Chill Cast	RT	6	
Brinell Hardness (HB)	Chill Cast	RT	80	
0.2% Proof Stress (N/mm²)	Continuous	RT	100	
Tensile Strength (N/mm²)	Continuous	RT	270	
Elongation in 5.65√Cross sectional Area %	Continuous	RT	13	
Brinell Hardness (HB)	Continuous	RT	75	
0.2% Proof Stress (N/mm²)	Centrifugal	RT	110	
Tensile Strength (N/mm²)	Centrifugal	RT	220	
Elongation in 5.65√ Cross sectional Area	Centrifugal	RT	8	
Brinell Hardness (HB)	Centrifugal	RT	80	

Tolerances



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OD Up to and including 4" + 1/32" – 0

Above 4" + 1/16 – 0

Above 12" + 3mm – 0

ID up to and including 4" – 1/32" + 0

Above 4" – 1/16 + 0

Above 12" – 3mm + 0

The information given above is based on our current knowledge and is given in good faith; however the company will accept no liability in respect of any third party reliance thereon.