

Copper Alloy Castings For Valves, Liners, Bushes And Fittings

Manufacturer	Archibald Young Ltd
Address	Milton Road, Krikintilloch, Glasgow, G66 1SY, United Kingdom
Type	Long Freezing Range Alloys Short Freezing Range Alloys
Scope of Approval	Copper Alloy Castings for Valves, Liners and Bushes. Long Freezing Range Alloys, maximum weight, 0.30 tonnes. Short Freezing Range Alloys, maximum weight 0.40 tonnes. Full alloy range listed in the Appendix.

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials. The full details of the processes and grades to which this approval applies are given on subsequent pages of this certificate.

This certificate is issued to the named manufacturer, and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate, and reserves the right to cancel or withdraw this certificate.



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A handwritten signature in black ink, appearing to read 'Clive Arnold'.

Clive Arnold

Lead Metallurgist: Metallurgical Assurance to
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Copper Alloy Castings For Valves, Liners, Bushes And Fittings

Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Phosphor bronze	Grades	Maximum Weight	Units
-	-	CuSn11P	0.30	Tonnes
-	-	CuSn10B	0.30	Tonnes
-	-	CuSn12	0.30	Tonnes
-	-	CuSn10	0.30	Tonnes
-	-	CuSn10P	0.30	Tonnes
-	-	CuSn10PbP	0.30	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Leaded bronze	Grades	Maximum Weight	Units
-	-	CuSn9Pb15	0.30	Tonnes
-	-	CuSn10Pb10	0.30	Tonnes
-	-	CuSn5Pb20	0.30	Tonnes
-	-	CuSn7Pb15	0.30	Tonnes
-	-	CuSn5Pb9	0.30	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Aluminium bronze	Grades	Maximum Weight	Units
-	-	CuAl10Fe5Ni5	0.40	Tonnes
-	-	CuAl11Fe6Ni6	0.40	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Gunmetal	Grades	Maximum Weight	Units
-	-	CuSn10Zn	0.30	Tonnes



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-	-	CuSn10Zn2	0.30	Tonnes
-	-	CuSn5Zn5Pb5	0.30	Tonnes
-	-	CuSn7Zn2Pb3	0.30	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Leaded gunmetal	Grades	Maximum Weight	Units
-	-	CuSn6Zn4Pb2	0.30	Tonnes
-	-	CuSn7Pb3Zn3	0.30	Tonnes
-	-	CuSn7Zn2Pb3	0.30	Tonnes
-	-	CuSn7Zn4Pb7	0.30	Tonnes
-	-	CuSn5Pb5Zn5	0.30	Tonnes

Additional Remarks

Alloys for approved applications only:

Long Freezing Range Alloys:

Phosphor Bronze, CuSn10PbP, Cu10P, CuSn10, CuSn10B.

Gunmetal, CuSn10Zn.

Leaded Gunmetal: CuSn7Pb3Zn3.

Leaded Bronze, CuSn9Pb15.

Heat Treatment is sub contracted.

Scope of approval does not cover weld repairs.



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