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Certificate No: LR2002264WA Issue Date: 06/01/2020 Expiry Date: 05/01/2023

Copper Alloy Castings For Valves, Liners, Bushes And Fittings

Manufacturer Archibald Young Ltd

Address Milton Road, Krikintilloch, Glasgow, G66 1SY, United Kingdom

Type Short Freezing Range Alloys

Long 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.

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.



71 Fenchurch Street, London, EC3M 4BS, UK

Clive Arnold

Senior Metallurgist to Lloyd's Register EMEA A member of the Lloyd's Register group

1. M. A. A. Market



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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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Copper Alloy Castings For Valves, Liners, Bushes And Fittings

Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Aluminium bronze	Grades	Maximum Weight	Units
-	-	CuAl11Fe6Ni6	0.40	Tonnes
-	-	CuAl10Fe5Ni5	0.40	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Phosphor bronze	Grades	Maximum Weight	Units
-	-	CuSn12	0.30	Tonnes
-	-	CuSn11P	0.30	Tonnes
-	-	CuSn10PbP	0.30	Tonnes
-	-	CuSn10P	0.30	Tonnes
-	-	CuSn10	0.30	Tonnes
-	-	CuSn10B	0.30	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Leaded gunmetal	Grades	Maximum Weight	Units
-	-	CuSn7Zn4Pb7	0.30	Tonnes
-	-	CuSn7Zn2Pb3	0.30	Tonnes
-	-	CuSn7Pb3Zn3	0.30	Tonnes
-	-	CuSn6Zn4Pb2	0.30	Tonnes
-	-	CuSn5Pb5Zn5	0.30	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and	Leaded bronze	Grades	Maximum Weight	Units



Fittings

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-	-	CuSn7Pb15	0.30	Tonnes
-	-	CuSn5Pb9	0.30	Tonnes
-	-	CuSn5Pb20	0.30	Tonnes
-	-	CuSn10Pb10	0.30	Tonnes
-	-	CuSn9Pb15	0.30	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Gunmetal	Grades	Maximum Weight	Units
-	-	CuSn7Zn2Pb3	0.30	Tonnes
-	-	CuSn5Zn5Pb5	0.30	Tonnes
-	-	CuSn5Zn5Pb5 CuSn10Zn2	0.30 0.30	Tonnes Tonnes



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