



Copper Alloy Castings For Valves, Liners, Bushes And Fittings

Manufacturer	IZMETAL CELIK URUNLERI SAN. VE TIC. A.S.
Address	Kemalpasa Asfalti No:30 Hayitlikir Mevkii Ulucak Koyu, Kemalpasa, IZMIR, Turkey
Type	Short Freezing Range Alloys Long Freezing Range Alloys
Scope of Approval	Copper Alloy Castings for Valves, Liners, Bushes and Fittings. Approval covers: Long Freezing Range Alloys in Phosphor Bronze, Gunmetal, Leaded Gunmetal and Leaded Bronze, maximum weight 2.00 tonnes. Short Freezing Range Alloys in Copper 30% Nickel, Copper 10% Nickel and Aluminium Bronze, maximum weight 2.00 tonnes. Full alloy list in the Appendix. Alloys accepted for Approved Applications: Long Freezing Range Alloys: Phosphor Bronze CuSn10PbP and CuSn10P Leaded Gunmetal CuSn7PbZn3 Leaded Bronze CuSn9Pb15 Short Freezing Range Alloys:



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Copper 30% Nickel: CuNi30Cr and CuNi30Nb

Copper 10% Nickel: CuNi10Nb

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	Aluminium bronze	Grades	Maximum Weight	Units
-	-	CuAl11Fe6Ni6	2.00	Tonnes
-	-	CuAl10Fe5Ni5	2.00	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Leaded bronze	Grades	Maximum Weight	Units
-	-	CuSn5Pb20	2.00	Tonnes
-	-	CuSn10Pb10	2.00	Tonnes
-	-	CuSn5Pb9	2.00	Tonnes
-	-	CuSn9Pb15	2.00	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Copper 10% nickel	Grades	Maximum Weight	Units
-	-	CuNi10Nb	2.00	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Copper 30% nickel	Grades	Maximum Weight	Units
-	-	CuNi30Cr	2.00	Tonnes
-	-	CuNi30Nb	2.00	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Gunmetal	Grades	Maximum Weight	Units
-	-	CuSn10Zn2	2.00	Tonnes



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Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Leaded gunmetal	Grades	Maximum Weight	Units
-	-	CuSn7Pb3Zn3	2.00	Tonnes
-	-	CuSn5Pb5Zn5	2.00	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Phosphor bronze	Grades	Maximum Weight	Units
-	-	CuSn10P	2.00	Tonnes
-	-	CuSn10PbP	2.00	Tonnes
-	-	CuSn11P	2.00	Tonnes
-	-	CuSn12	2.00	Tonnes



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