



Page 1 of 3  
Certificate No: LR2337324WA  
Issue Date: 01/09/2022  
Expiry Date: 31/08/2025

## Copper Alloy Castings For Valves, Liners, Bushes And Fittings

<b>Manufacturer</b>	<b>Dikkan Metal Urunleri San.Tic. A.S.</b>
<b>Address</b>	İzmir Kemalpaşa Yolu No:30, Hayitlikir Mevkii Kemalpaşa, Turkey
<b>Type</b>	Long Freezing Range Alloys Short Freezing Range Alloys

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.



Ataturk Caddesi, Sitkibey Plaza, No 82 Kat 3 Daire  
12, Kozyatagi, İstanbul, Türkiye

**A. Timurhan Baytekin**

Marine Senior Surveyor to Lloyd's Register  
Gozetim Ltd Sti  
A member of the Lloyd's Register group

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## Copper Alloy Castings For Valves, Liners, Bushes And Fittings

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
-	-	CuSn12	2.00	Tonnes
-	-	CuSn11P	2.00	Tonnes
-	-	CuSn10P	2.00	Tonnes
-	-	CuSn10PbP	2.00	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Leaded bronze	Grades	Maximum Weight	Units
-	-	CuSn10Pb10	2.00	Tonnes
-	-	CuSn5Pb9	2.00	Tonnes
-	-	CuSn5Pb20	2.00	Tonnes
-	-	CuSn9Pb15	2.00	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Aluminium bronze	Grades	Maximum Weight	Units
-	-	CuAl10Fe5Ni5	2.00	Tonnes
-	-	CuAl11Fe6Ni6	2.00	Tonnes



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## Copper Alloy Castings For Valves, Liners, Bushes And Fittings

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	Copper 10% nickel	Grades	Maximum Weight	Units
-	-	CuNi10Nb	2.00	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Gunmetal	Grades	Maximum Weight	Units
-	-	CuSn10Zn2	2.00	Tonnes

### Additional Remarks

Products in the approved grades shown in above pages of this approval certificate that are not included in the LR Rules for Materials are only to be issued with LR certification when an application for the grade has been agreed for a specific LR project and the application is covered by a valid design appraisal document.



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