



Certificate No : MD00/4438/0003/7b

**SAINT REMY INDUSTRIE**  
**Rue de l'Embarcadère**  
**03600 Commentry**  
**France**

has been approved as a manufacturer in accordance with the requirements of Lloyd's Register for :-

**Copper Alloy Castings for Valves, Liners, Bushes and Fittings**

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 in the Appendix of this certificate.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above manufacturer and is valid until the date given below.

**Valid Until : 18 March 2021**  
**Date of Issue : 04 May 2018**

A handwritten signature in blue ink, appearing to read 'Clive Arnold', is written over a horizontal line.

**Clive Arnold**  
Senior Metallurgical Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group



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Appendix 1

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Long freezing range alloys	Alloy Type	Designation	tonnes Maximum
Long freezing range alloys	Phosphor bronze	CuSn11P	1.50
		CuSn12	1.50
	Gunmetal	CuSn10Zn2	1.50
		CuSn5Zn5Pb5	1.50
		CuSn7Zn2Pb3	1.50
	Leaded gunmetal	CuSn5Pb5Zn5	1.50
		CuSn7Zn4Pb7	1.50
		CuSn6Zn4Pb2	1.50
		CuSn7Zn2Pb3	1.50
	Leaded bronze	CuSn10Pb10	1.50
		CuSn5Pb9	1.50
		CuSn5Pb20	1.50
CuSn7Pb15		1.50	
Short freezing range alloys	Alloy Type	Designation	tonnes Maximum
Copper 30% nickel	Copper 30% nickel	CuNi30Fe1Mn1	1.50
		CuNi30Fe1Mn1NbSi	1.50
		CuNi30Cr2FeMnSi	1.50
Copper 10% nickel	Copper 10% nickel	CuNi10Fe1Mn1	1.50
		CuNi10FeMn1	1.50
Aluminium bronze	Aluminium bronze	CuAl10Fe5Ni5	1.50
		CuAl11Fe6Ni6	1.50

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