



Certificate No : MD00/3188/0005/7b

Appendix 1

FONDERIA METALLI CENTRIFUGATI s.r.l.
Via Tito Carbone, 58
15050 Carbonara Scrivia (AL)
Italy

Long freezing range alloys	Alloy Type	Designation	tonnes Maximum
	Phosphor bronze	CuSn10PbP*	3.50
		CuSn10P*	3.50
		CuSn11P	3.50
		CuSn12	3.50
	Gunmetal	CuSn10Zn2	3.50
	Leaded gunmetal	CuSn5Pb5Zn5	3.50
		CuSn7Pb3Zn3*	3.50
	Leaded bronze	CuSn10Pb10	3.50
		CuSn5Pb9	3.50
		CuSn9Pb15*	3.50
		CuSn5Pb20	3.50

approval is for centrifugal casting process.

* LR certification is only permissible for projects for which the use of this grade has been specifically approved by LR plan appraisal.

Valid Until : 09 September 2020
Date of Issue : 05 July 2018

Gavin Young
Metallurgical Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group



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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 : 09 September 2020
Date of Issue : 05 July 2018

A handwritten signature in blue ink, appearing to read "G. Young", written over a horizontal line.

Gavin Young
Metallurgical Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group