



Certificate No : MD00/4111/0003/7b

SANTA CATERINA SRL
FUSIONE E COMMERCIO DEL RAME E DELLE SUE LEGHE
21015 Lonate Pozzolo (VA)
Via Giovanuzi XXIII, 94 B
Italy

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

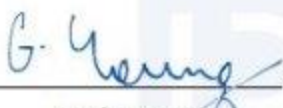
Copper Alloy Castings for Valves, Liners, Bushes and Fittings

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 : 14 January 2022
Date of Issue : 04 February 2019


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



Certificate No : MD00/4111/0009/7b

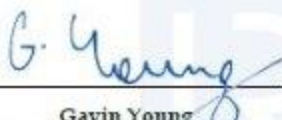
Appendix 1

SANTA CATERINA SRL
FUSIONE E COMMERCIO DEL RAME E DELLE SUE LEGHE
21015 Lonate Pozzolo (VA)
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Long freezing range alloys	Alloy Type	Designation	tonnes Maximum
	Phosphor bronze	CuSn11P	1.00
		CuSn12	1.00
	Gunmetal	CuSn10Zn2	1.00
	Leaded gunmetal	CuSn5Pb5Zn5	1.00
		CuSn7Zn4Pb7	1.00
		CuSn6Zn4Pb2	1.00
		CuSn7Zn12Pb3	1.00
	Leaded bronze	CuSn10Pb10	1.00
		CuSn5Pb5	1.00
		CuSn5Pb20	1.00
		CuSn7Pb15	1.00
Short freezing range alloys	Alloy Type	Designation	tonnes Maximum
	Copper 30% nickel	CuNi30Fe1Mn1	1.00
		CuNi30Fe1Mn1Nb0.1	1.00
		CuNi30Cr2FeMnSi	1.00
	Copper 10% nickel	CuNi10Fe1Mn1	1.00
		CuNi10FeMn1	1.00
	Aluminium bronze	CuAl10Fe5Ni5	1.00
		CuAl11Fe6Ni6	1.00

Approval also includes ASTM B148 grade C95800 which may be accepted for application in LR class projects where use of this grade has been specifically accepted by LR plan appraisal.

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