



Certificate No : MD00/1465/0005/7b

J T PRICE
Holditch Road
Chesterton
Newcastle Under Lyme
Staffordshire ST5 9JG
United Kingdom

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 : 25 March 2016
Date of Issue : 16 August 2013

Lili Hou

Metallurgical Specialist to Lloyd's Register EMEA
A subsidiary of the Lloyd's Register Group Limited



Certificate No : MD00/1465/0006/7a

**J T PRICE
Holditch Road
Chesterton
Newcastle Under Lyme
Staffordshire ST5 9JG
United Kingdom**

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

**Copper Alloy Castings for Propellers in grades Cu1, Cu2, Cu3 and Cu4
(maximum weight 7.5 tonnes)**

Heat treatment is subcontracted

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials.

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

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Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

**Lloyd's
Register**



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Appendix 1

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Staffordshire ST5 9JG

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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
Short freezing range alloys	Alloy Type	Designation	tonnes Maximum
	Copper 30% nickel	CuNi30Cr*	3.50
		CuNi30Nb*	3.50
	Copper 10% nickel	CuNi10Nb*	3.50
	Aluminium bronze	CuAl10Fe5Ni5	3.50

Alloys marked * and 30Cu/70Ni alloy type Monel 400 are accepted for approved applications.

Heat treatment is sub-contracted

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