



Certificate No : MD00/0926/0006/7b

**LES BRONZES D'INDUSTRIE**  
26 Rue de la République  
57360 Amneville  
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 : 27 April 2017**  
**Date of Issue : 23 May 2014**

**John D Evans**

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 |
|-----------------------------|------------------|--------------|----------------|
|                             | Gunmetal         | CuSn10Zn2    | 20.00          |
|                             | Leaded gunmetal  | CuSn5Pb5Zn5  | 20.00          |
|                             |                  | CuSn7Pb3Zn3* | 20.00          |
|                             | Leaded bronze    | CuSn10Pb10   | 20.00          |
| Short freezing range alloys | Alloy Type       | Designation  | tonnes Maximum |
|                             | Aluminium bronze | CuAl10Fe5Ni5 | 20.00          |

**Valid Until : 27 April 2017**

**Date of Issue : 23 May 2014**

**John D Evans**

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