



# Copper Alloy Castings For Valves, Liners, Bushes And Fittings

<b>Manufacturer</b>	<b>SAINT REMY INDUSTRIE</b>
<b>Address</b>	52 rue de l'Embarcadère, BP 64, COMMENTRY, 03600, France
<b>Type</b>	Short Freezing Range Alloys Long Freezing Range Alloys

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 on subsequent pages of this certificate.

This certificate is issued to the named manufacturer, and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate, and reserves the right to cancel or withdraw this certificate.



71 Fenchurch Street, London, EC3M 4BS, United Kingdom

---

**Clive Arnold**  
Metallurgy Team - Lead Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group

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.





## Copper Alloy Castings For Valves, Liners, Bushes And Fittings

Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Gunmetal	Grades	Maximum Weight	Units
-	-	CuSn7Zn2Pb3	1.50	Tonnes
-	-	CuSn10Zn2	1.50	Tonnes
-	-	CuSn5Zn5Pb5	1.50	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Aluminium bronze	Grades	Maximum Weight	Units
-	-	CuAl10Fe5Ni5	1.50	Tonnes
-	-	CuAl11Fe6Ni6	1.50	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Copper 10% nickel	Grades	Maximum Weight	Units
-	-	CuNi10Fe1Mn1	1.50	Tonnes
-	-	CuNi10FeMn1	1.50	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Copper 30% nickel	Grades	Maximum Weight	Units
-	-	CuNi30Cr2FeMnSi	1.50	Tonnes
-	-	CuNi30Fe1Mn1	1.50	Tonnes
-	-	CuNi30Fe1Mn1NbSi	1.50	Tonnes
Copper Alloy Castings for Valves, Liners, Bushes and Fittings	Leaded bronze	Grades	Maximum Weight	Units



71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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.





## Copper Alloy Castings For Valves, Liners, Bushes And Fittings

-	-	CuSn5Pb20	1.50	Tonnes
-	-	CuSn5Pb9	1.50	Tonnes
-	-	CuSn7Pb15	1.50	Tonnes
-	-	CuSn10Pb10	1.50	Tonnes

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

#### Leaded gunmetal

#### Grades

#### Maximum Weight

#### Units

-	-	CuSn5Pb5Zn5	1.50	Tonnes
-	-	CuSn6Zn4Pb2	1.50	Tonnes
-	-	CuSn7Zn2Pb3	1.50	Tonnes
-	-	CuSn7Zn4Pb7	1.50	Tonnes

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

#### Phosphor bronze

#### Grades

#### Maximum Weight

#### Units

-	-	CuSn11P	1.50	Tonnes
-	-	CuSn12	1.50	Tonnes



71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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.

