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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 8740-2013

Replacing GB/T 8740-2005

Casting bearing alloy ingots

铸造轴承合金锭

(English Translation)

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Foreword

This standard is in accordance with GB/T 1.1-2009 given rules drafted.

This standard replaces GB/T 8740-2005 "casting bearing alloy ingots." Compared with GB/T 8740-2005, major changes in this standard as follows.

--- Increased from grades 9-11. Tin-based alloys increase SnSb9Cu7 grades; lead-based alloys increase PbSb16Sn16Cu2 Grades.

--- Individual chemical constituents were modified. SnSb11Cu6 grades of bismuth in the modification of $\leq 0.05\%$ $\leq 0.08\%$; SnSb11Cu6 card Number of arsenic by a modification of $\leq 0.05\%$ $\leq 0.1\%$.

--- The requirement to remove the physical properties of products. While in the test method to delete the test methods of physical properties.

--- Increased production requirements for product sampling.

This standard SnSb4Cu4, SnSb8Cu4 two grades modify using ASTM B23:2000 (R2005) "Pap bearing alloy" standard the UNS-L13910, UNS-L13890 two grades; SnSb8Cu8, PbSb16Sn1As1, PbSb15Sn10, PbSb15Sn5, PbSb10Sn6 five grades identical with ASTM B23:2000 (R2005) "Pap bearing alloy" standard UNS-L13840, UNS-L53620, UNS-L53585, UNS-L53565, UNS-L53346 five grades; SnSb9Cu7, SnSb11Cu6, SnSb12Pb10Cu4 Three grades impurities limited use ASTM B23:2000 (R2005) "Pap bearing alloy" standard UNS-L13840 limited amount of impurities, PbSb16Sn16Cu2 impurities limited use ASTM B23:2000 (R2005) "Pap bearing alloy" standard UNS-L53346 hetero Quality limits. And ASTM B32 grade table in Appendix A, corresponding to the grades of the physical performance test data in Appendix B.

This standard ASTM B23:2000 (R2005) "Pap bearing alloy" compared to standard, with the following differences.

--- SnSb4Cu4, SnSb8Cu4 two grades of iron revised to limit the $\leq 0.08\%$ $\leq 0.06\%$;

--- Tin-based increase SnSb9Cu7, SnSb11Cu6, SnSb12Pb10Cu4 three grades, delete UNS-L13870 (SnSb6Cu5) Grades; lead-based increase PbSb16Sn16Cu2 grades;

This standard by the national non-ferrous metals Standardization Technical Committee (SAC/TC243) centralized.

1 Scope

This standard specifies the cast tin-based, lead-based bearing alloy ingots requested products, test methods, inspection rules and signs, packaging, transportation and storage and quality certification with the contract (or purchase order) content.

This standard applies to tin, lead, antimony, copper and other metals as the main raw material, pyrometallurgical refining production of cast tin-based, lead-based bearing alloy ingots.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 8170 repair value expressed about the rules and limit values
judgment YS/T 475 (all parts) cast alloys bearing analysis

3.1 Categories

Casting bearing alloy according to the main component composition of the alloy divided into two groups of 11 grades in Table 1.

3.2 Chemical composition

3.2.1

Casting bearing alloy ingots chemical composition shall comply with the requirements in Table 1.

3.2.2

demand side, such as the chemical composition have special requirements, negotiated by both supply and demand.

3.3 Surface quality

Bearing alloy ingot casting surface should be clean and free from slag, ash, burr, non-metallic inclusions and distinct layers.

3.4-shaped ingot weight Casting bearing alloy ingot casting Figure 1. Each ingot weight. tin-based alloy ingots $2\text{kg} \pm 0.2\text{kg}$, lead-based alloy ingot $3\text{kg} \pm 0.2\text{kg}$, special Requirements of consultation by both parties.

1 bearing alloy casting ingot ingot chart Test Method 4 Arbitration chemical composition analysis 4.1 casting bearing alloy ingots were prescribed YS/T 475's.

4.2 Casting bearing alloy ingots as required elements outside the predetermined detection table, negotiated by both parties to determine the analytical method.

4.3 surface quality casting bearing alloy ingot by visual inspection.

4.4 cast ingot weight bearing alloy ingot using a single measuring equipment corresponding measurement accuracy requirements.