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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 26063-2023

Replacing GB/T 26063-2010

Beryllium aluminium alloy

铍铝合金

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents" Drafting. This document replaces GB/T 26063-2010 "Beryllium Aluminum Alloy". Compared with GB/T 26063-2010, except for structural adjustments and editorial changes In addition, the main technical changes are as follows:

a) The total amount of impurities of BeAl-F and BeAl-Z in Table 2 has been deleted (see

3.2 of the.2010 edition);

b) Added requirements for Ag, Co and Ge element content of BeAl-Z brand products (see 5.1);

c) "Mechanical properties" The specified plastic elongation strength of BeAl-F and the tensile strength, specified plastic elongation strength and fracture strength of BeAl-Z have been changed. Requirements for rear elongation (see 5.2,

3.3 of the.2010 edition);

d) Added requirements for elastic modulus, average linear expansion coefficient, specific heat capacity, thermal conductivity and Poisson's ratio (see

e) Changed the "internal quality" technical requirements for cast products and powder metallurgy products (see 5.5,

3.6 of the.2010 edition);

f) The test method for chemical composition has been changed (see 6.1,

4.1 of the.2010 edition);

g) Added test methods for elastic modulus, average linear expansion coefficient, specific heat capacity, thermal conductivity and Poisson's ratio (see Chapter 6);

h) Changed the internal quality inspection method (see 6.5,

1 Scope

GB/T 26063-2023 is the Chinese national standard on beryllium aluminium alloy, in the field of metallurgy. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 6 August 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2024. Classification: ICS 77.150.99, CCS H64. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document.

GB/T 228.1 Tensile testing of metallic materials Part

GB/T 3850 Density determination method of dense sintered metal materials and cemented carbide

GB/T 4339 Determination of thermal expansion characteristic parameters of metallic materials

GB/T 5677 Radiographic inspection of castings

GB/T 22315 Test method for elastic modulus and Poisson's ratio of metallic materials

GB/T 22588 Flash method for measuring thermal diffusivity or thermal conductivity YS/T 1550 (all parts) Chemical analysis methods for beryllium alloys

3 Terms and definitions

There are no terms or definitions to be defined in this document.

4 Product categories

The grades, production processes, and supply status of beryllium aluminum alloy products are shown in Table 1. Table

1 Brand, production process and supply status Brand production process supply status BeAl-F powder metallurgy pressed state BeAl-Z vacuum casting cast state