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CCS H63



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

GB/T 14842-2007

Replacing GB/T 14842-1993

Niobium and niobium alloys rods and bars

铌及铌合金棒材

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Foreword

This standard replaces GB/T 14842-1993 "niobium rod." At the time of revision with reference to the United States ASTM B392-03 "niobium and niobium alloy bars, rods, wire specifications." This standard compared with GB/T 14842-1993, the main changes are as follows:

- Changed to "niobium and niobium alloy bars," according to the content change the standard name;
- Increase the stretch in the scope of the production process;
- Table 1, delete the "method of making" column, the length of the rod is given only limit requirements;
- Of bars specifications were revised;
- Increased NbZr1, NbZr2, NbHf10-1 three niobium alloy grades and requirements;
- Remove the cap requirements annealed rod length;
- Remove the chemical composition table, a direct reference to YS/T 656 "niobium and niobium alloy processing product grades and chemical composition";
- Increasing the test results to determine;
- Increased orders content, format and standard made editorial changes. The standard proposed by China Nonferrous Metals Industry Association. This standard Nonferrous Metals by the National Standardization Technical Committee. This standard by the Baoji Titanium Group Ltd. and Baoji Titanium Industry Co., Ltd. is responsible for drafting. This standard by Western Metal Materials Co., Ltd. participated in the drafting. The main drafters of this standard. Fengjun Ning, Huang Yongguang, Jiang Bin, Wang Dingchun, Lixian Jun, Yang Jun Hong, Zhang Xianming. This standard replaces the standards previously issued as follows:
 - GB/T 14842-1993. Niobium and niobium alloy bars

1 Scope

GB/T 14842-2007 is the Chinese national standard on niobium and niobium alloys rods and bars, 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 23 November 2007 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 June 2008. Classification: ICS 77.150.99, CCS H63. 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.

This standard specifies the niobium and niobium alloy rod requirements, test methods, inspection rules and signs, packaging, transportation, storage and purchase order (or close Same) content. This standard applies to the rule of the ingot or powder strip billet extrusion, forging, rolling, drawing and other craft production of niobium and niobium alloy rod and square bar.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 228 metal materials at room temperature tensile test method

GB/T 15076 (all parts), chemical analysis of tantalum and niobium YS/T 656 niobium and niobium alloy grades and chemical composition of processed products

3.1 Categories

3.1.1 grade, status, specifications Rod grades, status, and must also comply with the provisions in Table 1. Table 1 millimeters Grade Supply status in diameter or length of a side length of a Nb