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**NONFERROUS METALS INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YS/T 656-2015

**Designation and composition of wrought niobium and niobium
alloy**

铌及铌合金加工产品牌号和化学成分

(English Translation)

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces YS/T 656-2007, Designation and composition of wrought niobium and niobium alloy.

Compared with YS/T 656-2007, the major changes of this Standard are as follows.

- 3 designations and their requirements are added, including NbT, NbW5-1 and NbW5-2;
- the normative references are modified;
- relevant specifications for other elements are modifies.

This Standard was proposed by and shall be under the jurisdiction of Technical 243 on Nonferrous Metals of Standardization Administration of China (SAC/TC 243).

The drafting organizations of this Standard. Baoti Group Co., Ltd., Western Metal Materials Co., Ltd., Baoji Titanium Industry Co., Ltd., Ningxia Orient Tantalum Industry Co., Ltd., China Nonferrous Metal Industry Institute of Standards, Metrology and Quality.

1 Scope

This Standard specifies the designation, chemical composition etc. of niobium and niobium alloy.

This Standard applies to all types of wrought niobium and niobium alloy products (including cast ingots and semi-finished products).

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition dated applies to this document. For undated references, the latest edition of the referenced documents (including all amendments) applies to This Standard.

GB/T 15076 (all parts), Methods for chemical analysis of tantalum and niobium

3.1 Designations

The products are classified into 10 designations, including NbT, Nb1, Nb2, NbZr1, NbZr2, FNb1, FNb2, NbHf10-1, NbW5-1 and NbW5-2.

3.2 Chemical compositions

The product designations and chemical compositions shall be as specified in Table 1.

3.3.1 Other elements refer to the inherent microelements in the production of niobium

and niobium alloy, other than the elements artificially added.

3.3.2 Other elements generally include Cu, Ti, Ta, Fe, Si, W, Ni, Mo, Mn, Cr, Al, Hf, S, P, Sn (excluding the alloy elements in designations). When the user has other particular requirements, they shall be agreed on by both sides and indicated in order (or contract).

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