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

**中华人民共和国国家标准**

GB 13296–2007

Replace GB 13296–1991

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**Seamless stainless steel tubes for boiler and  
heat exchanger**

**锅炉、热交换器用不锈钢无缝钢管**

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**Issued by General Administration of Quality Supervision, Inspection and  
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**Standardization Administration of the People's Republic of China**

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## Foreword

The Article 5.2.1, 5.3, 5.4, 5.5, 6.1, 6.2.2, 6.4.1, 6.5.2, 6.5.3, 6.7, 6.9 of this standard are mandatory, the rest are recommend.

This standard corresponding to ASME SA-213/SA-213M (2001 version) *Seamless ferrite alloy and austenitized alloy tube* Application For manufacture wall panel, economizer, reheater, superheater and steam pipeline of boilers, and it is not equivalent to ASME SA-213/SA-213M (2001 version) on consistence

This standard was placed of GB 13296-1991 Seamless stainless steel tubes for boiler and heat exchanger. Comparasion with GB 13296-1991, main changes as follows :

- Modified the application scope of standard ;
- Modified the dimension, shapes and weights of steel tubes ;
- Deleted the examples of labeling;
- Added the designation of steel, cancelled the designation 1Cr25Ti and 0Cr26Ni5Mo2;
- Definite the delivery state of steel tubes;
- Modified the mechanical properties and processing properties;
- Improved the grade of eddy current inspection;
- Modified the requirements for batching rules.

The annex A and B of this standard is informative annex.

This standard is proposed by *China Iron and Steel Association*.

This standard is governed by National Steel standardization Committee.

Main draft units of this standard are Sichuan Changcheng Special Steel Co., Ltd, Zhejiang JIULI Hi-Tech Metals Co., Ltd

Main drafters of this standard are Chen Xiangshun, Cao Yong, Zhao Yuejian, Cai Xinqiang, Cao Zhiliang, Song Ningqiu, Shao Yu

Issued version of this standard:

- GB 13296-1991.

# Seamless stainless steel tubes for boiler and heat exchanger

## 1 Scope

This standard specifies the classification, code, dimension, shape, weight, technical requirements, test method, inspection rules, packaging, marking and certificate of quality of seamless stainless steel tubes for boiler and heat exchanger.

This Standard is applicable to the conversion of hardness and strength for carbon steel, alloy steel, etc.

## 2 Normative References

The following provisions contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to, or revisions of (excluding corrigendum contents), or Revised Edition do not apply. However, it is encouraged that every part of this standard to research the latest edition of these documents. For undated references, the latest edition of the normative document referred to applies.

GB/T 222 Permissible tolerances for chemical composition of steel products

GB/T 223.11 Methods for chemical analysis of iron, steel and alloy --The ammonium persulfate oxidation volumetric method for the determination of chromium content

GB/T 223.15 Method of sampling steel for determination of chemical composition and permissible variations for product analysis

GB/T 223.16 Methods for chemical analysis of iron, steel and alloy --The chromotropic acid photometric method for the determination of titanium content

GB/T 223.18 Methods for chemical analysis of iron, steel and alloy --The sodium thiosulfate separation iodimetric method for the determination of copper content

GB/T 223.19 Methods for chemical analysis of iron, steel and alloy --The neocuproine-chloroform extraction photometric method for the determination of copper content

GB/T 223.23 Methods for chemical analysis of iron, steel and alloy--The dimethylglyoxime



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