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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/T 3624-2010

Replace GB/T 3624-1995

**Titanium and titanium alloy seamless tubes**

**钛及钛合金无缝管**

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**Issued by the Ministry of Health (MOH) of the People's Republic of  
China**

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China (SAC)**

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## Contents

Foreword.....	1
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative References .....</b>	<b>1</b>
<b>3 Requirement .....</b>	<b>2</b>
<b>4 Test method.....</b>	<b>10</b>
<b>5 Inspection rules .....</b>	<b>11</b>
<b>5.1 Inspection and acceptance .....</b>	<b>11</b>
<b>5.2 Batch grouping.....</b>	<b>11</b>
<b>5.3 Inspection items.....</b>	<b>11</b>
<b>5.4 Sampling location and sampling quantity .....</b>	<b>11</b>
<b>6 Designation, packaging, transportation and storage .....</b>	<b>13</b>
<b>6.1 Designation.....</b>	<b>13</b>
<b>6.2 Packaging, transportation and storage .....</b>	<b>14</b>
<b>6.3 Quality certificate .....</b>	<b>14</b>
<b>7 The contents of the contract (or orders).....</b>	<b>14</b>

## Foreword

This standard references ASTM B861—06a *Titanium and Titanium Alloy Seamless Tubes*.

This standard substitutes GB/T 3624—1995 *Titanium and Titanium Alloy Tubes*.

This standard, in comparison with GB/T 3624—1995, has the major change as follows:

- Delete relevant content of the welded tube and welded-rolled tube;
- Cancel TA0 brand, and add TA3, TA8, TA8-1 and TA9-1 brand and relevant requirements;
- Adjust the mechanical property indexes of the TA1, TA2, TA9 and TA10 tubing;
- Adjust hydraulic test pressure value of the TA10 tubing;
- Add the provision that “when conduct the flattening test for the tubing with the  $D/t < 10$ , the fissure occurring on the equivalent positions of “6 o’clock” and “12 o’clock of the internal surface of the tubing shall not taken as the basis for refuse”;
- Add the provision on the bending property of the tubing, and the demander can select according to demand;
- Add the requirement of the contract (order).

This Standard is proposed by China Nonferrous Metals Industrial Association.

The Standard is under the jurisdiction of the National Nonferrous Metals Standardization Technical Committee.

This standard is drafted by Baoti Group and Baoji Titanium Industry Incorporated Co., Ltd..

Main drafters of this Standard: Yang Yulan, Li Nong, Huang Yongguang, Xu Zhe, Wang Yongmei, Daichun, Wang Weiqi.

The issuances of previous versions of the standard replaced by this standard are as follows:

- GB/T 3624—1983, GB/T 3624—1995.

# Titanium and titanium alloy seamless tubes

## 1 Scope

This standard specifies the requirement, test method, inspection rules and designation, packing, transportation, storage, quality certificate and contract (or order) content, etc., of the titanium and titanium alloy seamless tubes.

This standard is applicable to the titanium and titanium alloy seamless tubes produced by the cold-rolling (cold-drawing) method and applicable to the general industry.

## 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 228     Metallic materials--Tensile testing at ambient temperature

GB/T 241     Metal materials—Tube—Hydrostatic pressure test

GB/T 244     Metallic materials-Tube - Bend test

GB/T 246     Metal materials—Tube—Flattening test

GB/T 3620.1 Designation and composition of titanium and titanium alloys

GB/T 3620.2 Titanium and titanium alloys—permissible variations of chemical composition for wrought product analysis

GB/T 4698    Methods for chemical analysis of titanium sponge, titanium and titanium alloys

GB/T 8180    Wrought titanium and titanium alloy products packing marking transporting and storing

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