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

GB/T 26058-2010

Extruded tube of titanium and titanium alloys

钛及钛合金挤压管

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1 Scope

GB/T 26058-2010 is the Chinese national standard on extruded tube of titanium and titanium alloys, 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 10 January 2011 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 October 2011. Classification: ICS 77.150.50, 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.

This Standard specifies requirements, test methods, inspection rules and marks, packaging, transport, storage, quality certificate and contract (or order sheet) content for extruded tube of titanium and titanium alloys. This Standard is applicable to titanium and titanium alloy seamless tubes produced by extrusion for various purposes.

2 Normative references

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

GB/T 228, Metallic materials - Tensile test method at room temperature

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 (all parts), 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

3.1 Product classification

3.1.1 Product designation, status and specification The designation, supply status, specification as well as the maximum length when specifying outer diameter and wall thickness for extruded tube of titanium and titanium alloys shall comply with Table 1 and Table 2. Table 6 -- Shearing oblique mm

3.4.5 The tube shall be straight. The curvature of the tube with an outer diameter not greater than 180mm shall not be more than 6mm/m. The curvature of the tube with an outer diameter greater than 180mm is determined by the supplier and the purchaser through negotiation.

3.5 Appearance quality

3.5.1 The inner and outer surfaces of the tube are allowed to have slight scratches, pits, bumps, pock marks and other defects that do not exceed half of the allowable deviation of its wall thickness (for alloy tubes, it shall not exceed the allowable deviation of wall thickness).

3.5.2 The inner and outer surfaces of the tube shall be clean. Cracks, folds, inclusions and other defects are not allowed. Allow to clean up local defects. The cleaning depth shall not exceed half of the allowable deviation of its wall thickness (for alloy tubes, it shall not exceed the allowable deviation of wall thickness).

3.5.3 Different colors are allowed after the tube is pickled.

4 Inspection methods

4.1 Analysis method for chemical composition The analysis method for chemical composition of tubes shall be in accordance with GB/T 4698.

4.2 Inspection method for mechanical properties The mechanical performance test at room temperature is carried out according to GB/T 228. For tubes with a wall thickness of 4mm~< 6mm, use S1 or S2 sample. For tubes with a wall thickness 6mm~< 8mm, use R8 sample. For tubes with a wall thickness not less than 8mm, use R7 sample.

4.3 Measurement methods for size and allowable deviation Outer diameter Shearing oblique, not greater than Appearance quality Piece by piece 3.5 4.4

5.4 Determination of inspection results

5.4.1 When chemical composition fails, this batch of products shall be rejected.

5.4.2 In the mechanical performance test at room temperature, if one sample result fails, then take another double-samples from the batch of products to repeat the inspection on the failed item. If there is still a sample result fails in the repeated inspection, this batch of products shall be rejected. However, the supplier is allowed to inspect fails items one by one. Only accepted products are re-batched for delivery.

5.4.3 When size and allowable deviation, appearance quality fail, the single piece shall be rejected.

6 Packaging, marks, transport and storage as well as

quality certificate

6.1 Marks The following marks shall be marked on the conforming tubes and packaging boxes:

- a) Product designation;
- b) Smelting furnace number or batch number;
- d) Reference to this Standard.

6.2 Packaging, transport and storage The packaging, transport and storage of tubes shall comply with relevant provisions of GB/T 8180.

6.3 Quality certificate Each batch of tubes shall be attached with quality certificate, indicating:

- a) Supplier's name;