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**National Standard of the People's Republic of China**

GB/T 14975–2002

Replace GB/T 14975-1994

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**结构用不锈钢无缝钢管**

**Stainless Steel Seamless Tubes for Structures**

**Issued on Sept 11, 2002**

**Implemented on Feb 01, 2003**

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

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## Foreword

This standard is not equivalent to adopt ASTM A 269-2000 *Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service*, ASTM A 511-1996 *Standard Specification for Seamless Stainless Steel Mechanical Tubing*. In comparison with above International Standards, the allowable deviation of outer diameter and wall thickness is corresponding to that. Main changes as follows:

- The phosphorus contents of steel in this standard is stricter than International Standard;
- The value of  $\sigma_b$ ,  $\sigma_{P0.2}$  of mechanical properties is stricter than International Standard ;
- The hydraulic test is stricter than International Standard

In comparison with GB/T 14975-1994, main changes as follows :

- Added the classification, code and contents of order;
- Modified the series of outer diameter and wall thickness, enlarged the range of specification;
- Modified the dimension deviation of wall thickness, enlarged the range of steel length ;
- Changed the deviation of fixed and double length ;
- Newly added the requirements for total curvature of steel tubes, un-roundness and non-uniform wall thickness ;
- Changed the regulations on delivery deviation as theoretical weight;
- Supplemented new contents on the basis of original designation ;
- Stipulated the maximum test pressure of hydraulic test

This standard was issued on Feb 01, 2003. It was replaced of GB/T 14975-1994 *Stainless steel seamless tubes for structures* since implemented date

This standard is proposed by original *State Bureau of Metallurgical Industry*

This standard is governed by National Steel standardization Committee.

Main draft units of this standard are Sichuan Changcheng Special Steel Co., Ltd, Pangang Group Chengdu Seamless Steel Pipe Company Limited.

Main drafters of this standard are Xu Lianwen, Gao Zhiyuan, Yan Ru, Li Hong, Shi Jun, Su Cheng

This standard is first issued on 1994 and first amendment on 2001

# Stainless Steel Seamless Tubes for Structures

## 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 structures.

This Standard is applicable to seamless stainless steel tubes for general structure and mechanical structures (steel tubes for short)

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

GB/T 223.25 Methods for chemical analysis of iron, steel and alloy--The dimethylglyoxime gravimetric method for the determination of nickel content

GB/T 223.28 Methods for chemical analysis of iron, steel and alloy--The  $\alpha$ -benzoinoxime gravimetric method for the determination of molybdenum content

GB/T 223.36 Methods for chemical analysis of iron, steel and alloy The neutral titration method for the determination of nitrogen content after distillation separation

GB/T 223.40 Iron, Steel and Alloy-Determination of Niobium Content by the Sulphochlorophenol S Spectrophotometric Method

GB/T 223.60 Methods for chemical analysis of iron, steel and alloy -- The perchloric acid dehydration gravimetric method for the determination of silicon content

GB/T 223.62 Methods for chemical analysis of iron, steel and alloy--The butyl acetate extraction photometric method for the determination of phosphorus content

GB/T 223.63 Methods for chemical analysis of iron, steel and alloy -- The sodium (potassium) periodate photometric method for the determination of manganese content

GB/T 223.68 Methods for chemical analysis of iron, steel and alloy -- The potassium iodate titration method after combustion in the pipe furnace for the determination of sulfur content

GB/T 223.69 Methods for chemical analysis of iron, steel and alloy -- The gas-volumetric method after combustion in the pipe furnace for the determination of carbon content

GB/T 228-1987 Metallic Materials-Tensile Testing at Ambient Temperature

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

GB/T 242 Metal materials—Tube—Drift-expanding test

GB/T 246 Metal materials--Tube--Flattening test

GB/T 2102 Acceptance, packaging, marking, and certification of pipe tubes

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