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H 48



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

GB/T 14976-2002

Replace GB/T 14976-1994

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**流体输送用不锈钢无缝钢管**

**Stainless Steel Seamless Tubes for Fluid Transport**

**Issued on Sept 11, 2002**

**Implemented on Feb 01, 2003**

**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 ASTM A269-2000 General Purpose Austenitic Stainless Steel Seamless and Welded Tubes and ASTM A312/312M-1991b Austenitic Stainless Steel Seamless and Welded Tubes. The permissible deviations of external diameter and wall thickness specified in this standard are equivalent to those specified in these two foreign standards. The main differences consist in:

- The phosphorus content in steel specified in this standard is stricter than the foreign standards;
- The regulations for the mechanical properties  $\sigma_b$  and  $\sigma_{p0.2}$  are stricter than the foreign standards;
- The regulation for hydraulic test is stricter than the foreign standards;
- Intergranular corrosion test has been specified in this standard, whereas in the foreign standards, it is stipulated that this test shall be determined through negotiation between both parties.

The following provisions have been modified in this revision of the standard:

- a)** Classification, codes and ordering contents have been added;
- b)** The external diameter and wall thickness series has been modified and the range of specification has been extended;
- c)** The wall thickness deviation has been modified and the range of tube length has been extended;
- d)** The deviations of fixed and double length have been modified;
- e)** The requirements for total length bending, out-of-roundness and wall thickness unevenness of steel tube have been newly added;
- f)** The regulation for the delivered deviation of theoretical weight has been modified;
- g)** New contents have been supplemented on the basis of the original designations;
- h)** The maximum pressure of hydraulic test has been specified.

This standard will be implemented from Feb 1, 2003 and replace GB/T 14976-1994 Stainless Steel Seamless Tubes for Fluid Transport from the implementation date.

This standard was proposed by the original State Bureau of Metallurgical Industry.

This standard is under the jurisdiction of National Technical Committee for Steel Standardization.

This standard was drafted by Sichuan Chuantou Changcheng Special Steel Co., Ltd., Chengdu Seamless Steel Tube Co., Ltd. of Pangang Group.

The main drafters of this standard are Sun Xiaolin, Feng Junfu, Yan Ru, Liu Huakang and Chen Xiangshun.

This standard was first issued in 1994 and first revised in 2001.

# Stainless Steel Seamless Tubes for Fluid Transport

## 1 Scope

This standard specifies the dimension, shape, technical requirements, test methods, inspection rules, packing, marking and quality certificate of stainless steel seamless tubes for fluid transport. This standard is applicable to stainless steel seamless tubes for fluid transport (hereinafter referred to as steel tube).

## 2 Normative References

The following normative documents contain provisions which, through reference in this text, constitute provisions of this standard. For dated references, subsequent amendments (not including corrections) to, or revisions of, any of these publications do not apply. However parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

GB/T 222	Method of sampling steel for determination of chemical composition and permissible variations for product analysis
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 223.18	Methods for chemical analysis of iron, steel and alloy – The sodium thiosulfate separation iodimetric method for the determination of copper content
GB/T 223.23	Methods for chemical analysis of iron, steel and alloy – The dimethylglyoxime spectrophotometric method for the determination of nickel 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	Methods for chemical analysis of iron, steel and alloy – The anion-exchange separation – sulphochlorophenol S photometric method for the determination of niobium content
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

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