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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 18248-2008

Replace GB 18248-2000

Seamless steel tubes for gas cylinder

气瓶用无缝钢管

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Standardization Administration of the People's Republic of China

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Foreword

5.1, 5.2, 5.4, 5.6, 6.4, 6.8.2, Annex A and Annex B of this standard are recommendatory and the rest is mandatory.

This standard replaces GB 18248-2000 *Seamless Steel Tubes for Gas Cylinder*. Compared with this GB 18248-2000, modification is made for the following main technical content:

- Modified the scope of the standard;
- Modified permissible variation in size of steel tubes;
- Adjusted P and S content requirements of steel and added 34CrMo4 and 30CrMnSiA of two grades;
- Modified the steel smelting methods;
- Added the thermal expansion tabulation method, modified the delivery status of steel tubes;
- Deleted the macroscopic examination;
- For steel tubes made by rolling (forging) tube blank, modified inspection of non-metallic inclusions on tube blank to be conducted on steel tubes, modified inspection requirements of non-metallic inclusion of steel tubes according to GB / T 10561 meantime;
- Added quality requirements of inner and outer surfaces straight steel tubes;
- Modified longitudinal mechanical property data value measured by samples made by steel tube heat-treated workblank and required the value to be modified to reference value and listed in Appendix B

In this standard Annex A and Annex B are informative Annexes.

This standard is proposed by China Electrical Equipment Industrial Association.

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

This Standard is drafted by: Baoshan Iron & Steel Co., Ltd., Metallurgical Industry Information Standards Institute, Panzhihua Iron and Steel Group Chengdu Iron & Steel Co., Ltd., Tianjin Pipe Group Corporation, Hunan Hengyang Steel Tube (Group) Co., Ltd., Jiangsu Zhenda Steel Tube Group.

Main drafters of this standard are: Xu Qing, Wu Dongxing, Yu Chengfeng, Zhang Shuhua, Huang Ying, Yan Ru, An Jianbo, Zhao Bin, Li Jinling, and Li Qi.

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

- GB 18248—2000

Seamless steel tubes for gas cylinder

1 Scope

This standard specified the size, shape, weight, technical requirements, test methods, inspection rules, packaging, marking and quality certification of seamless steel tubes for gas cylinder and energy accumulator shell.

This standard applies to manufacture seamless steel tubes for gas cylinder and energy accumulator shell

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 222 Permissible tolerances for chemical composition of steel products

GB/T 223.5 Steel and iron - Determination of acid-soluble silicon and total silicon content - Reduced molybdosilicate spectrophotometric method

GB/T 223.11 Iron steel and alloy - Determination of chromium content - Visual titration or potentiometric titration method

GB/T 223.12 Methods for chemical analysis of iron, steel and alloy The sodium carbonate separation-diphenyl carbazide photometric method for the determination of chromium content

GB/T 223.14 Methods for chemical analysis of iron, steel and alloy — The N-benzoyl-N-phenylhydroxylamine extraction photometric method for the determination of vanadium content

GB/T 223.17 Methods for chemical analysis of iron steel and alloy; The diantipyrylmethane photometric method for the determination of titanium 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 223.24 Methods for chemical analysis of iron, steel and alloy. The extraction separation-The dimethylglyoxime spectrophotometric method for the determination of nickel content

GB/T 223.26 Iron steel and alloy - Determination of molybdenum content - The thiocyanate spectrophotometric method

GB/T 223.30 Methods for chemical analysis of iron, steel and alloy The arsenazo III spectrophotometric method for the determination of zirconium content after separation by p-bromomandelic acid

GB/T 223.40 Iron steel and alloy—Determination of niobium content by the sulphochlorophenol S spectrophotometric method

GB/T 223.53 Methods for chemical analysis of iron, steel and alloy; The flame atomic absorption spectrophotometric method for the determination of copper content

GB/T 223.54 Methods for chemical analysis of iron, steel and alloy; The flame atomic absorption spectrophotometric method for the determination of nickel content



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