

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国国家标准

GB/T 3093-2002

Replace GB/T 3093-1986

High-pressure seamless steel tubes for diesel engine

柴油机用高压无缝钢管

Issued on September 11, 2002

Implemented on February 01, 2003

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Foreword

This Standard uses but not equivalent to DIN 73000-1986 *Internal Tubes for Combustion Engine Fuel Injection Equipment and High Pressure Fuel Injection* combined with our national circumstances, to revise GB/T 3093—1986 *High-Pressure Seamless Steel Tubes for Diesel Engine*. In comparison with German Standard, dimension series range of this Standard is relatively smaller, external diameter allowable deviation equivalence, inner diameter allowable deviation: the precision of Grade B and C is equivalent to that of Level A and B of German Standard, but it is slightly different in scope division; 10A Grade steel chemical composition and mechanical properties in material series is equivalent to the grade of German Standard St30AI.

The revision of this Standard has modified following provisions: — Deleted Article 4.1 of the original Standard, respectively expressed dimensions series and deviation; Added values of the minimum bend radius of bending work (based on central axis of steel tubes); ---- Modified the value of difference between the maximum wall thickness and the minimum wall thickness in any cross-section of steel tubes: — Modified allowable deviation value between the batch weight of theoretical weight delivery and the weight of single steel tube; Added new steel grades, reduced the content of sulfur and phosphorus in various grades of steel; —— Canceled the method for open hearth steelmaking; Specified mechanical properties of the new grades of steel; —— Specified the maximum test pressure of hydraulic tests. Implementation date of this Standard is on February 1, 2003. This Standard replaces GB/T 3093 —1986 High-Pressure Seamless Steel Tubes for Diesel Engine from the date

This Standard is proposed by original State Bureau of Machine-Building Industry.

of its implementation.

This Standard is under the jurisdiction of the National Steel Standardization Technical

Committee.

Unit drafted this Standard: Shanghai Steel Pipe Plant of Baosteel Group

The main drafters of this Standard are: Cai Yaping, and Luo Yuqing.

Issuances of previous versions of standard replaced by this Standard are as follows:

GB/T 3093-1982; GB/T 3093-1986.

High-pressure seamless steel tubes for diesel engine

1 Scope

This Standard specifies the order contents, classification code, dimensions, appearance, weight, allowable deviation, technical requirements, test methods, inspection rules, packaging, marking and quality certificate of high-pressure seamless steel tubes for diesel engine.

This Standard applies to cold drawing seamless steel tubes for manufacturing high-pressure fuel tubes of injection system for diesel engine.

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 223.12 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 223.53 Methods for chemical analysis of iron, steel and alloy; The flame atomic absorption spectrophotometric method for the determination of copper content (eqv ISO/DIS 4943)

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 (eqv ISO/DIS 4940)

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



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