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National Standard of the People's Republic of China

GB/T 13793—2016
Replace GB/T 13793 - 2008

Steel pipes with a longitudinal electric (resistance) weld

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Quarantine of the People's Republic of China**
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Preface

This Standard is drafted according to the rules specified in GB/T 1.1-2009.

This Standard replaces GB/T 13793 - 2008 *Steel Pipes With A Longitudinal Electric (Resistance) Weld*.

Compared with GB/T 13793 - 2008, the main changes are as follows:

- The scope of application is modified;
- The allowable deviation of size is modified;
- The allowable deviation of specified length and multiple length is modified;
- The weight conversion coefficient of galvanized steel pipe is modified;
- Q275, Q390, Q420 and Q460 grades are added, and Q295 grade and its technical requirements are deleted;
- The post-welding cold and hot processing methods in the manufacturing method are deleted;
- The mechanical properties of Q195 are modified;
- The sampling way and sampling position of tensile test are added;
- The requirements for the transverse tensile test of the weld are modified;
- The nondestructive testing requirements for the weld of the steel pipe are modified;
- The weight requirements of the galvanized layer are modified;
- The coefficient of unit weight and thickness conversion formula of zinc layer is modified.

This Standard is proposed by China Iron and Steel Association.

This Standard is under the centralized jurisdiction of the Technical Committee on Steel of Standardization Committee of China (SAC/TC 183).

Drafting unit of this Standard: Zhejiang Jinzhou Pipeline Technology Co., Ltd., Tianjin Youfa Steel Pipe Group Co., Ltd., Tianjin Juncheng Steel Pipe Group Co., Ltd., Jinghua Innovation Group, Chinese National Engineering Research Center for Petroleum and Natural Gas Tubular Goods (Baoji Petroleum Steel Pipe Co., Ltd.), Anji Zhongyuan Pipe Industry Co., Ltd., Qian'an Zheng Da General Steel Pipe Co., Ltd., China Metallurgical industry Information and Standardization Research Institute.

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The release conditions of the previous standard versions replaced by this Standard are described as follows:

- GB/T 13792—1992, GB/T 13793—1992, GB/T 13793—2008.

Steel pipes with a longitudinal electric (resistance) weld

1 Scope

This Standard specifies classification and code, ordering content, size, appearance, weight and allowable deviation, technical requirements, test methods, inspection rules, packaging, marks and quality certificate of straight electric welded steel pipe.

This Standard is applicable to mechanical, building and other structural purposes and the straight electric welded steel pipe with outer diameter of less than 711 mm, and it can also be applicable to welded steel pipes for general fluid transportation.

2 Normative reference documents

The following documents are essential to the application of this document; for references with date, only the versions with dates are applicable to this document. For undated references, the latest versions (including all amendments) are applicable to this document.

GB/T 222 Allowable deviation for chemical components of finished steel products

GB/T 223.3 Methods for chemical analysis of steel and alloy Diantipyrylmethane phosphomolybdate acid gravimetric method for the determination of phosphorus content

GB/T 223.5 Iron and steel Determination of the content of acid soluble silicon and total silicon Reduction type silicomolybdate spectrophotometry

GB/T 223.9 Steel and alloy Determination of aluminum content Chromazurine S spectrophotometry

GB/T 223.11 Steel and alloy Determination of chromium content Visual titration or potentiometric method.

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

GB/T 223.14 Methods for chemical analysis of steel and alloy Tantalum reagent extraction photometric method for the determination of vanadium content

GB/T 223.16 Methods for chemical analysis of steel and alloy Chromotropic acid photometric method for the determination of titanium content

GB/T 223.18 Methods for chemical analysis of steel and alloy Sodium thiosulfate separation - iodimetric method for the determination of copper content

GB/T 223.19 Methods for chemical analysis of steel and alloy Neocuproine-chloroform extraction photometric method for the determination of copper content

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GB/T 223.23 Steel and alloy Determination of nickel content Dimethylglyoxime spectrophotometry for the determination of nickel content.

GB/T 223.32 Methods for chemical analysis of steel and alloy Sodium hypophosphite reduction-iodometry for the determination of arsenic content

GB/T 223.37 Methods for chemical analysis of steel and alloy Distillation separation-indophenol-blue colorimetry for the measurement of nitrogen content.

GB/T 223.40 Iron and steel and alloy Determination of niobium content Sulfochlorophenol S spectrophotometry

GB/T 223.53 Methods for chemical analysis of steel and alloy Flame atomic absorption spectrophotometry for the determination of copper content

GB/T 223.54 Methods for chemical analysis of steel and alloy Flame atomic absorption spectrophotometry for the determination of nickel content

GB/T 223.58 Methods for chemical analysis of steel and alloy Sodium arsenite-sodium nitrite titration for the determination of manganese content

GB/T 223.59 Steel and alloy Determination of phosphorus content Bismuth phosphorus molybdate blue spectrophotometry and antimony phosphorus molybdate blue spectrophotometry.

GB/T 223.60 Methods for chemical analysis of steel and alloy Perchloric acid dehydration gravimetric method for the determination of silicon content

GB/T 223.61 Methods for chemical analysis of steel and alloy Ammonium phosphomolybdate volumetric method for the determination of phosphorus content

GB/T 223.62 Methods for chemical analysis of steel and alloy Butyl acetate extraction photometric method for the determination of phosphorus content

GB/T 223.63 Methods for chemical analysis of steel and alloy Sodium periodate (potassium periodate) photometric method for the determination of manganese content

GB/T 223.64 Steel and alloy Determination of manganese content Flame atomic absorption spectrometry.

GB/T 223.67 Steel and alloy Determination of sulphur content Methylene blue spectrophotometry

GB/T 223.68 Methods for chemical analysis of steel and alloy Potassium iodate titrimetric method after combustion in tube furnace for the determination of sulfur content

GB/T 223.69 Steel and alloy Determination of carbon content Gas capacity method in tube furnace after combustion.

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