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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 34199-2017

Hot-rolled H section steel for electrified railway pillars

电气化铁路接触网支柱用热轧H型钢

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed by China Iron and Steel Association. This standard by the National Standardization Technical Committee Steel (SAC/TC183) centralized. This standard was drafted unit. Shandong Iron and Steel Co., Ltd. Laiwu Branch, Hebei Jinxi Iron and Steel Group Co., Ltd., metallurgical industry Information Standards Institute. The main drafters of this standard. Wang secondary school, Xiaogan male, Zhao Yichen, Wang Yujie, Zhao Xinhua, Ye Gaocheng, Liu Baoshi, Han Leilei, Li Furong. Hot-rolled H-section steel for catenary of electrified railway catenary

1 Scope

China's national standard for the hot-rolled H section used to make the masts of electrified railway overhead line equipment. It specifies the order content, the classification and codes, the dimensions, shape, weight and permitted deviations, the technical requirements, the test methods, the inspection rules and the packaging, marking and quality certificate. A catenary mast is a simple-looking component with an unusual combination of demands. It stands beside the track for the life of the railway, unpainted in many designs and never maintained; it carries the tension of the contact wire, which is deliberately kept high and constant; it is loaded sideways by wind and by the pull of the wire on curves; and it is close enough to a live conductor at twenty-five kilovolts that its electrical behaviour matters. It also has to be installed quickly, in possessions measured in hours, at thousands of locations. Specifying the section rather than leaving it to general structural steel is what allows the mast, the foundation and the fittings to be designed once and repeated.

This standard specifies the ordering content, classification and code, size, shape, weight and Tolerance, technical requirements, test methods, inspection rules, packaging, marking and quality certificate. This standard applies to the hot-rolled H-section steel (hereinafter referred to as "H-section steel") for the catenary of the railway line.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the

latest edition (including all amendments) applies to this document.

GB/T 222 steel finished chemical composition tolerance

GB/T 223.5 Steel - Determination of acid-soluble silicon and total silicon - Reduced molybdsilicate spectrophotometry

GB/T 223.9 steel and alloy aluminum content - Determination of chromazurol S spectrophotometry

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

GB/T 223.14 Methods for chemical analysis of iron, steel and alloy - The tantalum reagent extraction photometric method for the determination of vanadium content Methods for chemical analysis of copper, iron and alloy The spectrophotometric method for the determination of titanium content

GB/T 223.19 Methods for chemical analysis of iron, steel and alloy The neocuproine-chloroform extraction spectrophotometric method for the determination of copper content

GB/T 223.23 steel and alloy nickel content - dimethylglyoxime spectrophotometric method

GB/T 223.27 Methods for chemical analysis of iron, steel and alloy - The thiocyanate - butyl acetate extraction spectrophotometric method for the determination of molybdenum content

GB/T 223.37 Methods for chemical analysis of iron, steel and alloy - The distillation separation - indophenol blue photometric method for the determination of nitrogen content

GB/T 223.38 Methods for chemical analysis of iron, steel and alloy - Ion exchange separation - Gravimetric method for the determination of niobium content

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

GB/T 223.63 Methods for chemical analysis of iron, steel and alloy - The sodium periodate (potassium) photometric method for the determination of manganese content Iron and steel - Determination of manganese content - Flame atomic absorption spectrometric method Steel and alloy - Determination of sulfur content - Methylene blue spectrophotometric method Steel and alloy carbon content - Determination of gas volumetric method after combustion in a tube furnace

GB/T 223.69 Steel and alloy - Determination of sulfur content - Gravimetric method