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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/T 4237-2007

Replace GB/T 4237-1992

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**Hot Rolled Stainless Steel Plate, Sheet and Strip**

**不锈钢热轧钢板和钢带**

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**General Administration of Quality Supervision, Inspection and  
Issued by Quarantine of the People's Republic of China**

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## Foreword

This Standard prepared refers to ISO 9444: 2002 *Continuously hot-rolled stainless steel strip, plate/sheet and cut lengths -- Tolerances on dimensions* and form and ASTM A240/A240M-05a *Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications*, etc, revision of GB/T 4237-1992 *Hot rolled stainless steel sheets and plates*

This Standard will replace GB/T 4237-1992 *Hot rolled stainless steel sheets and plates*

Comparison with original Standard, main changes of this Standard are as follows:

- Added the contents of roll-cut fixed length steel plates and strips;
- Adjusted the normative references;
- Added the terminologies and symbols;
- Added the order contents;
- Adjusted the dimension precision, shape and measuring methods of hot rolling steel plates and strips;
- Added the regulations of same rolled thickness differences for cold rolling;
- Added 29 designations, specifies the chemical composition, mechanical properties and heat treatment in relevant Standards for introduced designations
- Cancelled 14 designations
- Adjusted the chemical composition for 19 designations;
- Deleted the low times test requirements of transverse acid leaching which the thickness of steel plates more than 4mm;
- Added the surface processing type and cancelled the designation differences of surface quality in original Standard;
- Added the Annex A *Heat Treatment of Stainless Steel*;
- Added the Annex B *Feature and Application of Stainless Steel*

The Annex A and B of this Standard is Informative Annex.

This Standard was proposed by China Iron & Steel Association

This Standard was under jurisdiction of the National Steel Standardization Technical Committee

Main draft units of this Standard were Taiyuan Iron & Steel Co., Ltd and China Metallurgical

Information and Standardization Research Institute

Main drafters of this Standard were Niu Xiaoling, Gao Zongren, Dong Li, Hao Ruiqin, Wang Xiaohu and Zhang Jiansheng.

The replacement version of this Standard as follows:

— GB/T 4237-1984 and GB/T 4237-1992

## Hot Rolled Stainless Steel Plate, Sheet and Strip

### 1 Scope

This Standard specifies the designation, dimension, permissible deviation, shape, technical requirements, test methods, inspection rules, packaging, labeling and quality certification of hot rolled stainless steel sheets and plates.

This Standard is applicable to corrosive stainless steels hot rolling thick steel plates which rolling by reversible mill, corrosive stainless steels hot rolling width steel strips which rolling by continuous rolling mill, that roll-cut fixed length steel plates and longitudinal shearing width steel strips, also apply to corrosive stainless steel hot rolling narrow steel strips and that roll-cut fixed length steel plates.

### 2 Normative References

The clauses in the following documents have been quoted and become that of this standard. For any cited documents with dates, all the subsequent modifications (excluding corrections) or revised versions do not apply to this standard. However, parties having reached an agreement based on this standard are encouraged to study whether the latest versions of these documents are applicable. For cited documents without a date, their latest versions apply to this standard.

GB/T 222 Method of sampling steel for determination of chemical composition and permissible variations for product analysis

GB/T 223.3 Methods for chemical analysis of iron, steel and alloy--The dianthipyryl methane phosphomolybdate gravimetric method for the determination of phosphorus content

GB/T 223.4 Methods for chemical analysis of iron, steel and alloy-- The volumetric method for determination of manganese content by ammonium nitrate oxidation

GB/T 223.5 Methods for chemical analysis of iron, steel and alloy The reduced molybdsilicate spectrophotometric method for the determination of acid-soluble silicon content

GB/T 223.8 Methods for chemical analysis of iron, steel and alloy The sodium fluoride separation-EDTA titration method for the determination of aluminium content

GB/T 223.9 Methods for chemical analysis of iron, steel and alloy The chrom azurol S photometric method for the determination of aluminium content

GB/T 223.10 Method of chemical analysis on steel and alloy -- The cupferron separation-chrome azurol S photometric method for the determination of aluminium content

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

GB/T 223.23 Methods for chemical analysis of iron, steel and alloy - The dimethylglyoxime spectrophotometric method for the determination of nickel 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 223.25 Methods for chemical analysis of iron, steel and alloy. The dimethylglyoxime gravimetric method for the determination of nickel content

GB/T 223.26 Methods for chemical analysis of iron, steel and alloy - The thiocyanate direct photometric method for the determination of molybdenum content

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 223.28 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 223.53 Methods for chemical analysis of iron, steel and alloy--The flame atomic absorption spectrophotometric method for the determination of copper content

GB/T 223.58 Methods for chemical analysis of iron, steel and alloy--The extraction-absorption catalytic polarographic method for the determination of manganese 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 223.61 Methods for chemical analysis of iron, steel and alloy--The ammonium phosphomolybdate volumetric method for the determination of phosphorus 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 after combustion in the pipe furnace for the determination of carbon content

GB 228 Metallic materials--Tensile testing of room temperature (GB/T 228-2002, eqv ISO 6892:1992)

GB/T 230.1 Metallic Rockwell hardness test—Part 1: Test method (scales A、B、C、D、E、F、G、H、K、N、T) (GB/T 230.1-2004, ISO 6508-1: 1999, MOD)

GB/T 231.1 Metallic materials—Brinell hardness test—Part 1 Test method (GB/T 231.1-2002, eqv ISO 6506-1: 1999)

GB/T 232 Metallic materials--Bend test (GB/T 232-1999, eqv ISO 7438: 1985(E))

GB/T 247 General rule of acceptance, package, mark and certification for steel plates (sheets) and strips

GB 709 Dimensions, shape, weight and tolerances for hot-rolled plates and sheets

GB/T 1172 Conversion of hardness and strength for ferrous metal

GB/T 2975 Rules for sampling in mechanical and technological testing of steel products

GB/T 4334.1 Stainless steels--10 percent oxalic acid etch test

GB/T 4334.2 Stainless steels--Ferric sulfate-sulfuric acid corrosion test

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