

ICS 77.140.50
CCS H 46



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

GB 912-2008

**[GB/T 912-2008] Hot-rolled sheets and strips of carbon
structural steels and high strength low alloy structural steels
(English Translation)**

Issued on: October 24, 2008

Implemented on: October 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine (AQSIQ)**

Table of Contents

Foreword...	3
1 Scope...	4
2 Normative References...	4
3 Ordering Information...	6
4 Size, Appearance, Weight and Permissible Deviation...	7
5 Technical Requirements...	7
6 Test Methods...	9
7 Inspection Rules...	9
8 Packing, Marking and Quality Certificate...	9
9 Rounding off of Numerical Values...	10

Foreword

This standard is the compulsory-provisions standard; 5.1.2, 5.4.1, 5.4.3 and 8.2 are the compulsory clauses.

This standard is not equivalent to "Hot-rolled Steel Sheet of Structural Quality" (ISO

4995.2001 (E)) and "Hot-rolled Steel Sheet of High Yield Stress Structural Quality" (ISO 4996.1999 (E)).

This standard replaces "Hot-rolled Sheets and Strips of Carbon Structural Steels and High Strength Low Alloy Structural Steels" (GB/T 912-1989). Compared with GB/T 912-1989, the main changes of this standard are as follows.

- Change from voluntary standard to standard with compulsory-provisions;
- Delete the content related to ply-rolling steel plate in the former standard;
- Adjust the thickness range of products;
- Add the "ordering information";
- Change the delivery state;
- Modify the requirements of surface quality.

This standard was proposed by China Iron and Steel Association.

This standard shall be under the jurisdiction of the National Technical Committee on Iron and Steel of Standardization Administration of China.

Chief drafting organizations of this standard. Guangdong Entry-Exit Inspection and Quarantine Bureau, Metallurgical Information and Standardization Institute and Benxi Iron & Steel (group) Co. Ltd.

Chief drafting staffs of this standard. Li Chengming, Peng Xiaogang, Wang Xiaohu, Zhang Zhenkun, Zhou Qi, Zhang Xianfeng, Liu Jianbin, Cao Biao and Pei Yu.

The previous edition replaced by this standard is as follows.

- GB/T 912-1989.

Hot-rolled Plates and Strips of Carbon Structural
Steels and High Strength Low Alloy Structural Steels

1 Scope

This standard specifies the ordering information, size, appearance, weight and permissible deviation, technical requirements, test methods, inspection rules, packing, marking and quality certificate of hot-rolled plates and strips of carbon structural steels and high strength low alloy structural steels.

This standard is applicable to hot-rolled plates and strips of carbon structural steels and high strength low alloy structural steels with thickness less than 3 mm.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to, or revisions of, any of these publications do not apply. However, all parties coming to an agreement according to this standard are encouraged to study whether the latest edition of these documents is applicable. For undated references, the latest edition of the normative document is applicable to these specifications.

GB/T 222 Permissible Tolerances for Chemical Composition of Steel Products

GB/T 223.3 Methods for Chemical Analysis of Iron, Steel and Alloy - The

Diantipyrylmethane Phosphomolybdate Gravimetric Method for the Determination

of Phosphorus Content

GB/T 223.5 Steel and Iron - Determination of Acid-soluble Silicon and Total Silicon Content - Reduced Molybdosilicate Spectrophotometric Method

GB/T 223.10 Methods for Chemical Analysis of Iron, Steel and Alloy - The Cupferron Separation-chrome Azurol S Photometric Method for the Determination of Aluminium Content

3.1 The order contract or order according to this standard shall include the following

contents.

4 Size, Appearance, Weight and Permissible Deviation

The size, shape, weight and permissible deviation for steel plate, sheet and strip shall meet the requirements of GB/T 709.

5.1.1 The designation and chemical composition of steel shall meet the requirements specified in GB/T 700 and GB/T 1591.

5.2 Smelting process

By converter or electro-smelting.

5.3 Delivery condition

The steel plate and strip shall be delivered with hot rolling or annealed condition.

5.4.1 Tensile strength and elongation percentage of steel sheet and strip shall meet

the requirements of GB/T 700 and GB/T 1591, but the elongation percentage is permitted to be 5 % less (absolute value) than that specified in GB/T 700 or GB/T 1591.

5.5.1 Harmful defects, such as the scar, crack, fold, inclusion, bubble and embed iron-oxide-scale, shall be free from the surface of the steel sheet and strip. Steel sheet and strip shall be free from any delaminate.

5.5.2 Local defects, such as iron oxide scale in thin layer, corrosion and slight pockmark, which do not affect using, are allowed to exist on the surface of the steel sheet and strip. The convex-concave shall not exceed half of the thickness deviation of the steel sheet and strip, and the permitted minimum thickness of steel sheet and strip shall be ensured.

6.1 The inspection items, sampling quantity, sampling method and test method of each batch of steel sheet and strip shall meet the requirements specified in Table 1.

7.1 The inspection and acceptance of steel sheet and strip are in charge of the supplier's technology and quality supervision department. The purchaser is entitled to perform inspection and acceptance according to any inspection item specified in this standard or contract.

7.4 The re-inspection and judgment of steel sheet and strip shall be carried out in accordance with the requirements of GB/T 17505.

8.1 Packing, marking and quality certificate of steel sheet and strip shall meet the requirements of GB/T 247. The type of the quality certificate may be according to the requirements of GB/T 18253.

9 Rounding off of Numerical Values

Rounding off of numerical values shall meet the requirements of YB/T 081.

.....