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# GB

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Replacing GB/T 2101-2008

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### **General Requirement of Acceptance, Packaging, Marking and Certification for Section Steel**

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## Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 2101-2008, *General Requirement of Acceptance, Packaging, Marking and Certification for Section Steel*. Compared with GB/T 2101-2008, the major changes of this Standard are as follows:

- the terms are added;
- the evaluation method for impact test results is added;
- the inspection rules for section steel is modified;
- the specifications for packaging are modified;
- the packaging requirements for silver steel are deleted;
- the specifications for marking are modified;
- the specifications for storage and transportation are added;
- the content specified for quality certification is modified.

This Standard was proposed by China Iron and Steel Industry Association.

This Standard shall be under the jurisdiction of National Technical Committee 183 on Steels of Standardization Administration of China.

The drafting organizations of this Standard: HBIS Group TangSteel Company, China Metallurgical Information and Standardization Institute, Shougang Group, Anshan Baode Iron and Steel Co., Ltd., Sichuan Desheng Group Vanadium-Titanium Co., Ltd., Hebei Jinxi Iron and Steel Group Co., Ltd.

The main drafters of this Standard: Deng Cuiqing, Fan Lijuan, Wang Yujie, Xiong Huabing, Wang Hongxin, Mei Jichang, Zhao Yichen, Liu Baoshi, Xu Feng, Luo Qingming, Ye Gaoqi.

The previous editions of the standard replaced by this Standard are as follows:

- GB/T 2101-1980, GB/T 2101-1989, GB/T 2101-2008.

# General Requirement of Acceptance, Packaging, Marking and Certification for Section Steel

## 1 Application Scope

This Standard specifies the terms and definitions, inspection rules and general specifications for packaging, marking, storage, transportation and quality certification of section steels (including billet, steel rod, reinforcing steel bar and steel wire rod).

This Standard applies to hot-rolled, cold-drawn (rolled), forged and heat-treated steels.

## 2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition dated applies to this document. For undated references, the latest edition of the referenced documents (including all amendments) applies to This Standard.

GB/T 15574, *Steel Products Classification*

## 3 Terms and Definitions

For the purposes of this Standard, the following terms and definitions apply.

### 3.1

#### **packaging**

The activity of applying certain technical methods during the process of using materials and auxiliaries in order to protect products, facilitate storage and transportation and promote sales during the process of circulation.

### 3.2

#### **label**

The product of paper or other materials fixed on packages, on which the content is marked including product name, furnace/batch number, designation, specification and manufacturer.

### 3.3

#### **tap**

The material which is cut off from a sample product in sufficient quantity in order to prepare one or more test pieces.

NOTE Under some circumstances, samples are sample products.

### **3.10**

#### **rough specimen**

The samples which are mechanically processed and heat treated afterwards where appropriate in order to prepare test pieces.

### **3.11**

#### **test piece**

The rough specimens which have satisfactory dimensions and meet the test requirements, with or without mechanical processing.

NOTE Under some circumstances, test pieces may be samples or rough specimens.

### **3.12**

#### **product analysis**

The analysis of chemical composition which is carried out for the products delivered.

### **3.13**

#### **sequential test**

A group of or a series of tests (e.g. impact tests) in which the mean value or single value is obtained to determined whether the products are as specified in product standards and/or contracts.

## **4 Inspection Rules**

### **4.1 Inspection and acceptance**

**4.1.1** The quality of section steel shall be inspected and accepted by the quality supervision department of the supplier.

**4.1.2** The section steel delivered shall comply with corresponding product standards; and the purchaser may carry out inspection in accordance with the corresponding product standards.

**4.1.3** The purchaser shall inspect the length, weight, number per bundle and other content of the bundles of section steels before unstrapping in accordance with the mark of each bundle; and they shall not be unstrapped in case of any dispute in the

of the two groups of test pieces shall be acceptable; or else, the test unit shall be rejected.

#### **4.6.2 Non-sequential test (such as tensile test and bending test)**

**4.6.2.1** If the unacceptable results are not calculated from the mean value but are measured from the tests, such as tensile test and bending test, the following method shall be used:

- a) if the test unit is single-piece products, double test of the same type shall be carried out for the unacceptable items. The results of the double test shall be acceptable, or else, the products shall be rejected;
- b) if the test unit is not single-piece products, unless otherwise agreed, the supplier may pick out the samples products from the test unit, or leave them in the test unit:
  - 1) if the sample products are not picked out from the test unit, the test pieces of double quantity shall be taken randomly from the same batch to carry out retest for the unacceptable items. All retest results shall be acceptable.
  - 2) if the sample products are picked out from the test unit, another two sample products shall be taken from the same test unit randomly. And then carry out the test of the same type under the same conditions as those of the first test for the test pieces prepared separately from the two sample products. All the test results shall be acceptable.

**4.6.2.2** When the products' retest results are unacceptable, the testing on each products of the test unit is allowed and the delivery of acceptable single-piece products is allowed.

#### **4.6.3 Unallowed retest item**

In case of any flake, retest is not allowed.

#### **4.6.4 Other requirements**

When it is specified in product standards, the product standards shall apply; and if it is not specified in product standards, 4.6.1, 4.6.2 and 4.6.3 shall apply.

## **5 Packaging**

### **5.1 General specifications**

**5.1.1** The section steels in bundles shall kept flush at both end.

**5.1.2** The packages of products shall not become loose, deformed or damaged during storage and transportation.