

ICS 77.140.60

H44



**National Standard of the People's Republic of China**

GB 1499.1-2008

Relative part in GB/T 701-1997, and GB 13013-1991

---

Steel for the Reinforcement of Concrete—

Part 1: Hot Rolled Plain Bars

钢筋混凝土用钢

第一部分：热轧光圆钢筋

**Issue Date: Mar. 31, 2008**

**Implementation Date: Sept. 1, 2008**

---

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

---

**Contents**

<b>Foreword</b> .....	1
<b>1 Scope</b> .....	1
<b>2 Normative References</b> .....	1
<b>3 Terms and Definitions</b> .....	2
<b>4 Grade and Brand</b> .....	2
<b>5 Ordering Content</b> .....	2
<b>6 Dimension, shape, Weight and Allowable Deviation</b> .....	3
<b>7 Technical Requirements</b> .....	5
7.1 Trademark and chemical compositions .....	5
7.2 Smelting process .....	5
7.3 Mechanical property and technical property .....	5
7.4 Surface quality .....	5
<b>8 Test Methods</b> .....	6
8.1 Testing items .....	6
8.2 Mechanical properties and technical property test .....	6
8.3 Dimensional measurement .....	6
8.4 Measurement of weight deviation .....	6
<b>9 Test Rules</b> .....	7
9.1 Characteristic value test .....	7
9.2 Delivery inspection .....	7
<b>10 Package, Marking and Quality Certificate</b> .....	8
<b>Annex A</b> .....	9
<b>Annex B</b> .....	11

## Foreword

Article 6.4.1 and 7.3.2 of this part are not compulsory articles/items and the rest are compulsory articles/items.

GB 1499 "Steel for the Reinforcement of Concrete" comprises three parts:

- Part 1: hot rolled plain bars;
- Part 2: hot rolled ribbed steel bars;
- Part 3: welded mesh of reinforcements.

This part comprises part one of GB 1499 are not equivalent to international standard ISO 6935-1: 1991 "Steel for the Reinforcement of Concrete--Part 1: Plain Bars" and ISO 6935-1: 1991, it also consulted on revision edition of the international standard "ISO/DIS 6935-1 (2005)".

Since the implementation date of this part, wire rod part for architecture in GB/T 701-1997 "Hot-rolled Low Carbon Steel Wire Rods" and GB 13013-1991 "Hot Rolled Plain Steel Bars for the Reinforcement of Concrete" shall be abolished simultaneously.

The main changes between this part and GB 13013-1991 are as follows:

- Add definition of characteristic value in 3.2;
- Add 300 strength grades;
- Add product specification, combining with GB/T 701-1997;
- Add ordering content in Chapter;
- Make amendment for "surface quality" and "measurement for weight deviation";
- Revise and unify steel grade, unify strength grade code R235 of GB 13013-1991 and Q235

for architecture use in GB/T 701-1997 to HPB 235.

Annex A and Annex B of this part are normative.

This part is proposed by China Iron and Steel Association.

This part is under the jurisdiction of National Steel Standardization Technical Committee.

This part was drafted by National Center for Quality Supervision and Test of Building Steel Materials, Kunming Iron & Steel Co., Ltd., China Metallurgical Information and Standardization Research Institution, China Shougang International Trade & Engineering Corp. (CSITEC), Zenith Steel Group Corporation, Fushun New Steel Limited Liability Company, Sanming Steel (group) Co., Ltd, Fujian, China and China Academy of Building Research.

This part was mainly prepared by: Zhu Jianguo, Feng Chao, Li zhimin, Tang Mu,

Dong Caiping, Zhu Qizhu, Li Lizhang, Chen lie, Zhao Yu, Wang Xiaofeng, Zhou Xiaoqin and Wang Xianhua.

# Steel for the Reinforcement of Concrete —

## Part 1: Hot Rolled Plain Bars

### 1 Scope

This part specifies terms, definitions, classification, brand, ordering content, dimension, shape, weight, allowable deviation, technical requirements, test method, test rules, packing, marking and quality certificate of hot rolled plain bars for reinforcement steel concrete.

This part is applicable to hot rolled vertical bar, reinforcement concrete and coil roll plain bar for reinforcement concrete.

This part is not applicable to secondary steel bar rolled by final steel.

### 2 Normative References

The following articles/items which, through reference in this part of GB 1499, constitute provisions of this part: for dated reference, subsequent amendments to, or revisions of any of these publications do not apply; for undated references, the latest edition of the normative document referred to applies.

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

GB/T 223.5 Methods for Chemical Analysis of Iron, Steel and Alloy--The Reduced Molybdosilicate Spectrophotometric Method for the Determination of Acid-soluble Silicon Content

GB/T 223.12 Methods for Chemical Analysis of Iron, Steel and Alloy--The Sodium Carbonate Separation-diphenyl Carbazide Photometric Method for the Determination of Chromium 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 223.59 Methods for Chemical Analysis of Iron, Steel and Alloy--The Reduced Molybdantimonyl Phosphoric Acid Photometric Method for the Determination of Phosphorus Content

GBIT 223.63 Methods for Chemical Analysis of Iron, Steel and Alloy--The Sodium (Potassium) Periodate Photometric Method for the Determination of Manganese 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/T 228 Metallic Materials--Tensile Testing at Ambient Temperature (GB/T 228-2002, eqv ISO 6892: 1998)

GB/T 232 Metallic Materials--Bend Test (GB/T 232-1999, eqv ISO 7438: 1985)

GB/T 2101 General Requirements of Acceptance, Packaging, Marking and Certification for Section Steel

GB/T 4336 Standard Test Method for Spark Discharge Atomic Emission Spectrometric Analysis



北京文心雕语翻译有限公司  
Beijing Lancarver Translation Inc.

---

---

---

## 完整版本请在线下单

或咨询：

TEL: 400-678-1309

QQ: 19315219

Email: [info@lancarver.com](mailto:info@lancarver.com)

<http://www.lancarver.com>

---

---

## 线下付款方式：

### 1. 对公账户：

单位名称：北京文心雕语翻译有限公司

开户行：中国工商银行北京清河镇支行

账 号：0200 1486 0900 0006 131

---

---

### 2. 支付宝账户：info@lancarver.com

---

---

注：付款成功后，请预留电邮，完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱，如需索取发票，下单成功后的三个工作日内安排开具并寄出，预祝合作愉快！

---

