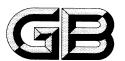
ICS 77.140.60 H44



# 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

### GB 1499.1-2008

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#### **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.

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#### **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/T223.5 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/T223.19 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 Molybdoantimonyl 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



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