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National Standard of the People's Republic of China

GB 1499.2-2007
Replace：GB/T 1499-1998

Steel for the Reinforcement of Concrete—
Part 2: Hot Rolled ribbed Bars

钢筋混凝土用钢

第 2 部分：热轧带肋钢筋

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Contents

Foreword

GB 1499 is divided into three parts;

-Part I: Hot rolled plain bars;

-Part 2: Hot rolled ribbed steel bars;

-Part 3: Steel bar welting net.

This is Part 2 of GB 1499, corresponding to the international standard ISO 6935-2:1991 Steel Ribs of Steel for the reinforcement of concrete, while with nonequivalent conformity; moreover, this part refers to revision draft of the international standard "ISO/DIS 6935-2 (2005)".

This part replaces GB 1499-1998 Hot Rolling Ribbed Steel Bars for the Reinforcement of Concrete

Compare with GB 1499-1998, there are some significant changes in this part, as follows:

——The hot rolled bar with ultra-fine grain was added in the scope of application;

——Adding three brands of hot rolled bars of fine grain, namely HRBF335, HRBF400andHRBF500;

——Adding three definitions of 3.1 general hot-rolled reinforced bar, 3.2 hot rolled bar of fine grain and 3.1I characteristic value;

——Adding Chapter 5 of purchasing content;

——Adding three specifications , 7.5 fatigue property, 7.6 welding performance and 7.7 grain size;

——Amending "surface quality". "Weight deviation measuring" and other provisions;

——Amending the brand sign of steel bars; HRB335, HRB400 and HRB500 are replaced by 3. 4 and 5 respectively; while HRBF335. HRBF400 and HRBF500 are replaced by C3. C4 and C5;

——canceling the original Annex B ;;Reference composition of hot-rolled ribbed steel bars";

——Adding existing Annex B "Test rules of the characteristic value";

——Adding annex C "Computing formula of relative ribs area of steel bar",

This standard’ clauses are compulsory, except 6.4.1, 7.3.5. 7.4.2, 7.5. Dimension a and b in Table 3 and Annex C are non-compulsory clauses, the rest clauses are compulsory.

Annex A and Annex B in this part are normative, while Annex C is informative. This part was proposed by China Iron and Steel industry Association.

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

The drafting units of this part include China Metallurgical Construction Group Corporation, Capital Iron and Steel Group, Laiwu Iron and Steel Group Corporation. metallurgical Industry Information Standards Institute, Hunan Valin Lianyuan Iron and Steel Co. Ltd, Jinan Iron and Steel Co., Ltd. and Kunming Iron and Steel Co. Ltd.

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This part was initially issued in February, 1979, firstly amended in June, 1984, secondly amended in June 1991 and thirdly amended in October 1998.

Steel for the reinforcement of concrete —

Part 2: Hot rolled ribbed steel bars

1 Scope

This part specifies the definition, type, brand, purchasing content, dimension, shape, weight, tolerance, technical specification, testing method, test rules, packing, sign and certificate of quality of the hot rolled ribbed steel bars of reinforced concrete.

This part is applicable to the hot rolled ribbed steel bars for the reinforcement of concrete, and hot rolled ribbed steel bar of fine grain.

This part is inapplicable to the recycled steel bar re-rolled by finished steel, and remained heat treatment steel bars

2 Normative Reference

The following provisions contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to, or revisions of (excluding corrigendum contents), or Revised Edition do not apply. However, it is encouraged that every part of this standard to research the latest edition of these documents. For undated references, the latest edition of the normative document referred to applies.

GB/T222 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 223.11 Methods for Chemical Analysis of Iron, Steel and Alloy-The Ammonium Persulfate Oxidation Volumetric Method for the Determination of Chromium Content

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

GB/T223.14 Methods for Chemical Analysis of Iron, Steel and Alloy-The N-benzoy-N-phenylhydroxylamine Extraction Photometric Method for the Determination of Vanadium Content

GB/T 223.17 Methods for Chemical Analysis of Iron, Steel and Alloy-The Diantipyrylmethane Photometric Method for the Determination of Titanium 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 223.26 Methods for Chemical Analysis of Iron Steel and Alloy-The Thiocyanate Direct Photometric Method for the Determination of Molybderum Content

GB/T223.27 Methods for Chemical Analysis of Iron, Steel and Alloy-The Thiocyanate-butyl Acetate Extraction Spectrophotometric Method for the Determination of Molybdenum Content

GB/T223.37 Methods for Chemical Analysis of Iron Steel and Alloy-The Indophenal Blue Photometric Methods for the Determination of Nitrogen Content after Distillation Separation

GB/T 223.40 Iron, Steel and Alloy-Determination of Niobium Content by the Sulphochlorophenol

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