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

中华人民共和国国家标准

GB/T 3078—2008
Replace GB/T 3078—1994

Quality Structural Steel Cold Drawn Bars
优质结构钢冷拉钢材

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**Jointly issued by the General Administration of Quality Supervision,
Inspection and Quarantine (GAQSIQ) and the
Standardization Administration (SAC) of the People's
Republic of China**

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Foreword

This standard shall replace GB/T 3078-1994 "Technical Requirements for Quality Structural Steel Cold Drawn Bars".

Compared with GB/T 3078-1994, the main changes in this standard are as follows:

- The standard name was changed from "Technical Requirements for Quality Structural Steel Cold Drawn Bars" into "Quality Structural Steel Cold Drawn Bars";
- Steels not for cutting processing in the classification were canceled;
- The "ordering information" was added;
- Provisions on the chemical composition of steels for cold upsetting were canceled;
- Provisions on "smelting process" were added;
- Provisions on the cold drawn ground delivery condition were added;
- The hardness values of 38CrSi and 38CrMoAlA delivered at cold drawn and ground condition were adjusted;
- Provisions on the mechanical properties of steels that are delivered at annealed condition and are used for cold upsetting were canceled;
- Provisions on the sample surface after upset forging were added;
- The provision that "the total decarburized layer depth at one side of the ground bars may not be larger than 1.0%D" was canceled;
- Provisions on the surface quality of such steels not for cutting processing were canceled.

This standard was proposed by China Iron & Steel Association.

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

Drafting organizations of this standard: Chongqing Donghua Special Steel Co., Ltd. and Metallurgical Information and Standardization Institute.

Chief drafting staffs of this standard: Li Qingyan, Liu Baoshi, Dai Qiang and Luan Yan.

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

- GB 3078—1982 and GB/T 3078—1994.

Quality Structural Steel Cold Drawn Bars

优质结构钢冷拉钢材

1 Scope

This standard specifies the classification, ordering information, dimensions, appearance and allowable deviation, technical requirements, test methods, inspection rules, packing, marking and quality certificate of structural steel cold drawn and ground bars.

This standard is applicable to the quality carbon structural steel and alloy structural steel (round steel, square steel and hexagonal steel) cold drawn steel bars.

2 Normative References

The following documents contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to (excluding correction to), or revisions of, any of these publications do not apply. However, the parties who enter into agreement according to this standard are encouraged to research whether the latest editions of these labels are applied or not. For undated normative references, the latest edition is applicable to this standard.

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 Diaminephosphomolybdate Gravimetric Method for the Determination of Phosphorus Content"

GB/T 223.4 "Alloyed Steel - Determination of Manganese Content - Potentiometric or Visual Titration Method"

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

GB/T 223.8 "Methods for Chemical Analysis of Iron, Steel and Alloy - The Sodium Fluoride Separation-EDTA Titration Method for the Determination of Aluminium Content"

GB/T 223.9 "Methods for Chemical Analysis of Iron, Steel and Alloy -The Chrom Azurol S Photometric Method for the Determination of Aluminium 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/T 223.13 "Methods for Chemical Analysis of Iron, Steel and Alloy-The Ammonium Ferrous Sulfate Titration Method for the Determination of Vanadium Content"

GB/T 223.14 "Methods for Chemical Analysis of Iron, Steel and Alloy-The



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