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**Ferro-Metallurgical Professional Standard of People's
Republic China**

YB/T 170.4—2002

Non-alloy steel rods for conversion to wire

**—Part 4: Specific requirements for wire rod for special
applications**

**制丝用非合金钢盘条
第 4 部分：特殊用途盘条**

(ISO 16120-4: 2001, MOD)

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Foreword

YB/T 170 consists of the following parts, under the general title Non-alloy steel wire rod for conversion to wire:

Part 1: General requirements

Part 2: Specific requirements for general purpose wire rod

Part 3: Specific requirements for rimmed and rimmed-substitute low carbon steel wire rod

Part 4: Specific requirements for wire rod for special applications

This Standard corresponding to ISO 16120-4: 2001 *Non-alloy steel wire rod for conversion to wire — Part 3: Specific requirements for rimmed and rimmed-substitute, low-carbon steel wire rod.*

Comparison with ISO 16120-4: 2001, main differences of this Standard are as follows:

- Modified the normative references of Clause 2 as China national standard and professional standard;
- In order to guarantee rods quality, added smelting method and external refining in 4.2 of this Standard;
- Added two common class of A and B into C42D2 and over according to Mn contents;
- Modified the grouping of surface defect depth from $\phi 12\text{mm}$ to $\phi 13\text{mm}$;
- For examination of decarburized layer, changed into domestic habit, cancelled the requirements for “Decarburized layer is not allowed”, in consistence with YB/T 170.1;
- Added annex A, contrastive grade table between this Standard, Japan and USA was given, for ease of execution of this Standard.

Annex A and B of this Standard is informative annex.

This Standard is proposed by State Administration of Metallurgical Industry.

This Standard is under jurisdiction of National Technical Committee on Iron and Steel of Standardization Administration of China

Draft units of this Standard: Jiangsu Shagang Group Co., Ltd, Baosteel Group Corporation Second-Steel Co., Ltd, Research Institute of Metallurgical Industry Information Standards, Shanghai Baosteel Group Corporation and Tangshan Iron and Steel Group Company Limited.

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Non-alloy steel rods for conversion to wire

—Part 4: Specific requirements for wire rod for special applications

1 Scope

This Standard specifies the designation and requirements for wire rod for special applications.

This Standard is applicable to wire rod with improved characteristics intended for drawing and/or cold rolling.

2 Normative References

Clauses in the following documents, if referenced by this standard, shall become the clauses of this standard. Any reference documents dated and their subsequent modification sheets (excluding error correction contents) or revisions do not apply to this standard, however, it is encouraged that all parties that enter into an agreement according to this standard study whether or not the latest editions of the same documents are applicable. The latest editions of any referenced documents undated apply to this standard.

GB/T 222 Method of sampling steel for determination of chemical composition and permissible variations for product analysis

GB/T 223.5-1997 Methods for chemical analysis of iron, steel and alloy The reduced molybdosilicate spectrophotometric method for the determination of acid-soluble silicon content

GB/T 223.10 Methods for chemical analysis of iron, steel and alloy — The cupferron separation-chrome azurol S photometric method for the determination of aluminium content

GB/T 223.12-1991 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 223.19-1989 Methods for chemical analysis of iron steel and alloy; The neocuproine-chloroform extraction photometric method for the determination of copper content

GB/T 223.23-1994 Methods for chemical analysis of iron, steel and alloy. The dimethylglyoxime spectrophotometric method for the determination of nickel content

GB/T 223.27-1994 Methods for chemical analysis of iron, steel and alloy The thiocyanate-butyl acetate extraction spectrophotometric method for the determination of molybdenum content

GB/T 223.37 Methods for chemical analysis of iron steel and alloy; The indophenol blue photometric methods for the determination of nitrogen content after distillation separation

GB/T 223.50 Methods for chemical analysis of iron, steel and alloy The phenylfluorone-CTMAB direct photometric method for the determination of tin content

GB/T 223.59-1987 Methods for chemical analysis of iron, steel and alloy; The reduced molybdoantimonyl phosphoric acid photometric method for the determination of phosphorus content

GB/T 223.62-1988 Methods for chemical analysis of iron, steel and alloy; The butyl acetate extraction photometric method for the determination of phosphorus content

GB/T 223.63-1988 Methods for chemical analysis of iron, steel and alloy; The sodium(potassium) periodate photometric method for the determination of manganese content

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