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**YB**

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

YB/T 170.1—2000

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**Non-alloy steel rods for conversion to wire  
—Part 1: General Requirements**

制丝用非合金钢盘条

第 1 部分 一般要求

(ISO/FDIS 16120-1: 2000)

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## ISO Preface

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting.

Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO/FDIS 16120 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO/FDIS 16120-1 was prepared by Technical Committee ISO/TC 17, Steel, Subcommittee SC 17, Steel wire rod and wire products.

This first edition of ISO 16120-1, together with parts 2, 3 and 4 cancels and replaces ISO 8457-2 (1989) which has been technically revised and augmented.

ISO 16120 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

Annex A forms a normative part of this part of ISO 16120.

# Non-alloy steel rods for conversion to wire

## —Part 1: General Requirements

### 1 Scope

This Standard specifies the dimension, shape, mass and permissible deviation, technical requirements, test method, inspection rules, packaging, label as well as quality certificate of non-alloy steel rods for conversion to wire

This Standard is applicable to wire rod of non-alloy steel intended for wire drawing and/or cold rolling (hereinafter referred to as rod).

This Standard is not applicable to following, e.g.:

- steel wire rod intended for heat treatment;
- rod for free-cutting steels;
- steel rod for cold heading and cold extrusion;
- steel rod intended for the production of electrodes and products for welding;
- steel rod for welded fabric for reinforcement for concrete;
- steel rod for wire for high fatigue strength mechanical springs, such as valve springs.

In addition to the requirements of this Standard the general technical delivery requirements specified in GB/T 17505 apply.

### 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 222-1984 Method of sampling steel for determination of chemical composition and permissible variations for product analysis

GB/T 223 Methods for chemical analysis of iron steel and alloy

GB/T 224-1987 Determination of depth of decarburization of steel

GB/T 228-1987 Metallic materials--Tensile testing at ambient temperature

GB/T 232-1999 Metallic materials--Bend test

GB/T 233-2000 Metallic materials-Forging test

GB/T 239-1999 Metallic materials wire torsion test

GB/T 2101-1989 General requirements of acceptance, packaging, marking, and certification for section steel

GB/T 2975-1998 Steel and steel products--Location and preparation of test pieces for mechanical testing

GB/T 4336-1984 Method for photoelectric emission spectroscopic analysis of carbon steel medium and low alloy steel

GB/T 10561-1989 Steel-Determination of content of non-metallic inclusion-Micrographic method using standard diagrams

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