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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 77.140.60

H 44

GB/T 3207-2008

Replacing GB/T 3207-1988

Bright steel

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Issued on: August 05, 2008

Implemented on: April 01, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;**

Standardization Administration of PRC.

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Bright steel

1 Scope

This standard specifies the terms and definitions, classification code, size, shape, weight and allowable deviations, technical requirements, test methods, inspection rules, marks and quality certificates, packaging, transportation and storage requirements of bright steel.

This standard is applicable to stripped, ground and polished round steel with high requirements for surface quality.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 2101 General requirement of acceptance packaging marking and certification for section steel

GB/T 2103 General requirements for acceptance, packing, marking and quality certification of steel wire

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1

Bright steel

A bright-surface round steel with no rolling defects and decarburized layer on the surface. It can be subdivided into flake steel, polish steel, buff steel.

3.2

Flake steel

6.3 Mechanical properties and process properties

The mechanical properties of the bright steel (excluding the properties of the heat treatment of the specimen) and the process properties are allowed to fluctuate by $\pm 10\%$ from the corresponding technical standards. The mechanical properties of the heat treatment of the specimen shall meet the requirements of the corresponding standard.

6.4 Macrostructure

The macrostructure of bright steel shall meet the requirements of the corresponding technical standards.

6.5 Microstructure

6.5.1 There shall be no decarburization layer on the surface of the bright steel.

6.5.2 The microstructure of bright steel shall meet the requirements of the corresponding technical standards.

6.6 Surface quality

6.6.1 The surface of the bright steel shall be clean and smooth; there shall be no external defects such as cracks, hair lines, folds, scratches, concave surfaces, scars, rust and oxide scale. It allows the presence of individual slight scratch, straightened and stripped thread mark which has a depth of not more than half of tolerance. The bright steel after heat treatment is allowed to have oxidation color.

6.6.2 The surface roughness of bright steel shall meet the requirements of Table 7. If the supplier can guarantee that the roughness is qualified, the inspection can be exempted.

6.6.3 According to the requirements of the buyer, after negotiation between the two parties and indicated in the contract, steel materials with special roughness requirements can be provided.

Table 7 -- Surface roughness

Category	Roughness R_a / μm
Flake steel, SF	≤ 3.0
Polish steel, SP	≤ 5.0
Buff steel, SB	≤ 0.6

7 Test method

7.1 The size and shape of the bright steel shall be measured with a measuring

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