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

GB 8602-1988

Replacing GB/T 8602-1988

Rough-rolled tyres for railway

铁路用粗制轮箍

(English Translation)

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Foreword

This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting is scheduled.

This document supersedes GB/T 8602-1988 "Crude Wheel Hoops for Railways". Compared with GB/T 8602-1988, except for structural adjustments and compilation...

Aside from the logical changes, the main technical changes are as follows.

- a) Increased the applicable locomotive and rolling stock speeds and axle loads for coarse wheel rims (see Chapter 1);
- b) A definition for coarse wheel rims has been added (see Chapter 3);
- c) The classification rules for Class A and Class B wheel rims have been deleted (see Chapter 3 of the 1988 edition).
- d) The specification for wheel rim dimensions has been removed (see Chapter 4 of the 1988 edition);
- e) The grade LG70 was added (see 5.1);
- g) The requirements for the sampling location in the impact test have been changed (see 5.3.2, 5.4.2 in the 1988 edition).
- h) Surface hardness testing requirements have been added (see 5.3.4);
- i) Added requirements for microstructure and grain size, and changed the requirements for non-metallic inclusion levels (see 5.5, 5.7 in the 1988 edition).
- j) The requirements for low magnification structures have been changed (see 5.6, 5.6 in the 1988 edition).
- k) The requirements for ultrasonic testing have been changed (see 5.7, 5.8 in the 1988 edition).
- l) The requirements for logo printing have been changed (see 7.1);

m) Hydrogen content detection has been added (see Appendix A).

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Iron and Steel Association.

This document is under the jurisdiction of the National Steel Standardization Technical Committee (SAC/TC 183).

1 Scope

This document specifies the dimensional limit deviations and geometric tolerances, technical requirements, and testing procedures for coarse-made railway wheel rims (hereinafter referred to as "wheel rims").

Testing methods, inspection rules, marking, quality certificates, packaging, transportation, and storage.

The manufacture, ordering, and inspection of coarse wheel rims for vehicles and other vehicles.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 222 Permissible Deviations in Chemical Composition of Finished Steel and Alloy Products
GB/T 223.3 Chemical Analysis Methods for Iron and Steel Alloys II. Determination of Phosphorus Content by Antipyrine-Methane Phosphomolybdic Acid Gravimetric Method
GB/T 223.4 Determination of manganese content in iron and steel and alloys by potentiometric or visual titration method
GB/T 223.5 Determination of Acid-Soluble Silicon and Total Silicon Content in Iron and Steel - Reduced Molybdate Spectrophotometric Method
GB/T 223.11 Determination of Chromium Content in Iron and Steel and Alloys by Titration and Spectrophotometry
GB/T 223.13 Determination of Vanadium Content in Iron and Steel and Alloys by Titration and Spectrophotometry
GB/T 223.18 Chemical Analysis Methods for Iron and Steel and Alloys - Separation of Copper by Sodium Thiosulfate-Iodometric Method
GB/T 223.19 Chemical Analysis Methods for Iron and Steel Alloys - Determination of Copper Content by Chloroform Extraction Spectrophotometry
GB/T 223.23 Determination of Nickel Content in Iron and Steel and Alloys - Dimethylglyoxime Spectrophotometric Method
GB/T 223.26 Determination of molybdenum

content in iron and steel and their alloys - Thiocyanate spectrophotometric method GB/T 223.28 Chemical Analysis Methods for Iron and Steel and Alloys-Determination of Molybdenum by the alpha-benzoic acid oxime Gravimetric Method GB/T 223.53 Chemical Analysis Methods for Iron and Steel Alloys-Determination of Copper Content by Flame Atomic Absorption Spectrophotometry GB/T 223.54 Determination of Nickel Content in Iron and Steel and Alloys by Flame Atomic Absorption Spectrometry GB/T 223.58 Chemical Analysis Methods for Iron and Steel Alloys - Determination of Manganese by Sodium Arsenite-Sodium Nitrite Titration GB/T 223.60 Determination of silicon content in iron and steel and alloys by gravimetric method GB/T 223.61 Chemical Analysis Methods for Iron and Steel and Alloys - Determination of Phosphorus Content by Ammonium Phosphomolybdate Titration Method GB/T 223.62 Chemical Analysis Methods for Iron and Steel Alloys - Determination of Phosphorus Content by Butyl Acetate Extraction Spectrophotometric Method GB/T 223.63 Determination of Manganese Content in Iron and Steel and Alloys - Sodium (Potassium) Periodate Spectrophotometric Method GB/T 223.64 Determination of Manganese Content in Iron and Steel and Alloys by Flame Atomic Absorption Spectrometry GB/T 223.67 Determination of Sulfur Content in Iron and Steel and Alloys - Methylene Blue Spectrophotometric Method GB/T 223.68 Chemical Analysis Methods for Iron and Steel Alloys - Determination of Sulfur Content by Potassium Iodate Titration after Combustion in Tubular Furnace GB/T 223.69 Determination of carbon content in iron and steel and their alloys - Volumetric method of gas volumetric analysis after combustion in a tubular furnace GB/T 223.71 Chemical Analysis Methods for Iron and Steel Alloys - Determination of Carbon Content by Gravimetric Method After Combustion in Tubular Furnace GB/T 223.72 Determination of sulfur content in iron and steel and their alloys by gravimetric method