

ICS 77.140.99

CCS H 59



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

GB/T 37607-2025

Replacing GB/T 37607-2019

Corrosion-resistant alloy wire rod and wire

耐蚀合金盘条和丝

Issued on: August 29, 2025

Implemented on: March 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Foreword	3
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Ordering contents	6
5 Manufacturing process	7
6 Technical requirements	7
7 Test methods	14
8 Inspection rules	15
9 Packaging, marking, and quality certificate	15
Bibliography	17

Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document supersedes GB/T 37607-2019 "Corrosion-resistant alloy wire rod and wire" and GB/T 38589-2020 "General technical requirements of corrosion-resistant alloy bars, wire rods and wires". This document is primarily based on GB/T 37607- 2019 and incorporates the content of GB/T 38589-2020. Compared with GB/T 37607- 2019, apart from structural adjustments and editorial changes, the main technical changes are as follows.

- a) MODIFY the scope of application (see Clause 1 of this document; Clause 1 of the 2019 edition);
- b) MODIFY the ordering contents (see Clause 4 of this document; Clause 3 of the 2019 edition);
- c) MODIFY the delivery condition for wire rods (see 5.2.1 of this document; 5.3.1 of the 2019 edition);
- d) ADD three corrosion-resistant alloy designations. H08330 (NS1105), H06690 (NS3105), and H06022 (NS3308); MODIFY the requirements for the chemical composition of certain designations (see 6.1 of this document; 5.1 of the 2019 edition);

- e) ADD the requirements for the mechanical properties of wires of designations H08330 (NS1105), H06690 (NS3105), and H06022 (NS3308); MODIFY the requirements for the room-temperature mechanical properties of designation H10276 (NS3304); and MODIFY the recommended heat treatment regimens for the room-temperature mechanical properties of wires (see 6.2.2 of this document; 5.4 of the 2019 edition);
- f) MODIFY the requirements for surface quality (see 6.3 of this document; 5.5 of the 2019 edition);
- g) MODIFY the test methods (see 7.2 of this document; 6.1 of the 2019 edition);
- h) MODIFY the provisions regarding packaging, marking, and quality certificate (see Clause 9 of this document; Clause 8 of the 2019 edition).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority of this document shall not be held responsible for identifying any or all such patent rights.

This document was proposed by China Iron and Steel Association.

Corrosion-resistant alloy wire rod and wire

1 Scope

This document specifies the ordering contents, manufacturing processes, technical requirements, inspection rules, packaging, marking, and quality certificate for corrosion-resistant alloy wire rods and wires, and describes the corresponding test methods.

This document applies to corrosion-resistant alloy wire rods with a nominal diameter of 4.5 mm ~ 18.0 mm, and corrosion-resistant alloy wires with a nominal diameter of

0.10 Mm ~ 16.0 mm (hereinafter referred to as "alloy products"). Other specifications

shall be implemented by reference to this document.

2 Normative references

GB/T 222-2025

GB/T 223

GB/T 226

GB/T 228.1

GB/T 228.2

GB/T 239.2

GB/T 2101

GB/T 2103

GB/T 2975

GB/T 6394

GB/T 11170

GB/T 14999.1

GB/T 15260

GB/T 20066

GB/T 20123

3 Terms and definitions

This document contains no terms or definitions requiring definition.

4 Ordering contents

Contracts for orders placed in accordance with this document shall include the following contents.

- a) serial number of this document;
- b) product name;
- c) unified digital code (or alloy designation);
- d) specifications;
- e) mass or quantity;
- f) delivery condition (see 5.2);
- g) hardness or mechanical properties of wire rods (see 6.2);
- h) melting method (where applicable);
- i) special requirements.

5.1 Melting method

Unless otherwise specified in the contract, the alloy shall typically be produced via electroslag remelting.

5.2 Delivery condition

5.2.1 Wire rods shall be delivered in the hot-rolled or solution-treated condition, or in the pickled and peeled condition following hot rolling or solution treatment.

5.2.2 Wires shall be delivered in the cold-drawn, solution-treated, or solution-treated

plus aged condition. Surface finishes are classified as matte, bright, clean, or coated/plated.

6.1 Designation and chemical composition

The designation and chemical composition (based on melting analysis) of alloy shall comply with the provisions of Table 1. The permissible deviations for the chemical composition of finished products shall comply with the provisions in Table 4 of GB/T 222-2025.