

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 15008-2025

Replaces GB/T 15008-2020 and GB/T 38589-2020

Corrosion-Resistant Alloy Bars

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Foreword

This document was drafted in accordance with GB/T 1.1-2020, *Directives for Standardization - Part 1: Rules for the Structure and Drafting of Standardizing Documents*.

This document replaces GB/T 15008-2020, *Corrosion-Resistant Alloy Bars*, and GB/T 38589-2020, *General Technical Requirements for Corrosion-Resistant Alloy Bars, Wire Rods and Wires*. It is based primarily on GB/T 15008-2020 and incorporates the content of GB/T 38589-2020. In addition to structural adjustments and editorial changes, the main technical changes from GB/T 15008-2020 are as follows:

- a) the scope has been revised (see Clause 1; Clause 1 of the 2020 edition);
- b) the alloy classification has been revised (see Clause 4; Clause 3 of the 2020 edition);
- c) four grades - NS3313, NS5200, NS5201 and NS5211 - and their chemical compositions have been added (see 7.1.1);
- d) mechanical-property requirements for the newly added grades have been added (see 7.2);
- e) dimensional and shape requirements for forged bars have been added (see 7.6.1);
- f) the retest and determination rules have been revised (see 9.4; Clause 8 of the 2020 edition);
- g) requirements for packaging, marking and quality certificates have been revised (see Clause 10; Clause 9 of the 2020 edition).

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

This document was proposed by the China Iron and Steel Association and is under the jurisdiction of the National Technical Committee on Steel of Standardization Administration of China (SAC/TC 183).

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Previous editions: GB/T 15008 was first issued as GBn 272-1988, revised in 1994 as GB/T 15008-1994, revised a second time in 2008 and a third time in 2020. GB/T 38589 was first issued in 2020.

Corrosion-Resistant Alloy Bars

1 Scope

This document specifies the classification and designation, ordering information, manufacturing process, technical requirements, test methods, inspection rules, packaging, marking and quality certificate requirements for corrosion-resistant alloy bars.

This document applies to hot-rolled and forged corrosion-resistant alloy bars (hereinafter referred to as bars) used in corrosive media.

2 Normative References

The following documents are indispensable for the application of this document. For dated references, only the edition corresponding to the cited date applies. For undated references, the latest edition (including all amendments) applies.

GB/T 222 - Permissible tolerances for chemical composition of finished steel products
GB/T 223 (all parts) - Methods for chemical analysis of iron, steel and alloy
GB/T 228.1 - Metallic materials - Tensile testing - Part 1: Method of test at room temperature
GB/T 228.2 - Metallic materials - Tensile testing - Part 2: Method of test at elevated temperature
GB/T 229 - Metallic materials - Charpy pendulum impact test method
GB/T 230.1 - Metallic materials - Rockwell hardness test - Part 1: Test method
GB/T 702-2017 - Hot-rolled steel bars - Dimensions, shape, mass and tolerances
GB/T 908-2019 - Forged steel bars - Dimensions, shape, mass and tolerances
GB/T 2101 - General requirements for acceptance, packaging, marking and quality certification of section steel
GB/T 2975 - Steel and steel products - Location and preparation of samples and test pieces for mechanical testing
GB/T 3207-2008 - Bright steel
GB/T 4162-2022 - Ultrasonic testing method for forged and rolled steel bars
GB/T 6394 - Determination of estimating the average grain size of metal
GB/T 8170 - Rules of rounding off for numerical values and expression and judgement of limiting values
GB/T 8647 (all parts) - Methods for chemical analysis of nickel
GB/T 10561-2023 - Steel - Determination of content of nonmetallic inclusions - Micrographic method using standard diagrams
GB/T 14999.2 - Test methods for superalloys - Part 2: Transverse macrostructure and defect examination by acid etching
GB/T 15260 - Corrosion of metals and alloys - Test methods for intergranular corrosion of nickel alloys
GB/T 20066 - Steel and iron - Sampling and preparation of samples for determination of chemical composition
GB/T 20123 - Steel and iron - Determination of total carbon and sulfur content - Infrared absorption method after combustion in an induction furnace (routine method)
GB/T 36164 - High-alloy steel - Determination of multi-element contents - X-ray fluorescence spectrometric method (routine method)
GB/T 38939 - Nickel-base alloys - Determination of multi-element contents - Spark discharge atomic emission spectrometric method (routine method)
YB/T 4395 - Steel - Determination of molybdenum, niobium and tungsten contents - ICP-AES method
YS/T 325.2 - Methods for chemical analysis of nickel-copper alloys - Part 2: Determination of copper content - Electrolytic gravimetric method

3 Terms and Definitions

No terms or definitions need to be defined in this document.

4 Classification and Designation

Bars are classified by intended processing method as follows:

- a) bars for pressure working: UP;
- b) bars for machining: UC.

5 Ordering Information

Contracts or purchase orders placed in accordance with this document should include: a) document number; b) product name; c) unified numerical designation (or grade); d) mass (or quantity); e) dimensions; f) melting method; g) delivery condition; h) intended processing use (if not specified, bars for machining apply); and i) special requirements.

6 Manufacturing Process

6.1 Melting method

Unless otherwise specified in the contract, the melting method shall be selected by the supplier.

6.2 Delivery condition

Bars shall be delivered in the hot-rolled (forged) or solution-treated condition, or peeled, ground or turned after hot rolling (forging) or solution treatment. The specific delivery condition shall be stated in the contract.

7 Technical Requirements

7.1 Unified numerical designation (or grade) and chemical composition

7.1.1 The unified numerical designation (or grade) and chemical composition (ladle analysis) of the alloys shall comply with Table 1.

7.1.2 Permissible deviations in the chemical composition of finished products shall comply with GB/T 222.

Table 1 - Unified Numerical Designations (or Grades) and Chemical Compositions

Chemical composition, mass fraction / %. 'Balance' means the remainder. A dash means not specified.

No.	Unified numerical designation	Grade	C	Cr	Ni	Fe	Mo	W	Co	Cu	Al	Ti	Nb	V	Si	Mn	P	S	Other
1	H08800	NS1101	≤0.10	19.00- 23.00	30.00- 35.00	≥39.50	-	-	-	≤0.75	0.15- 0.60	0.15- 0.60	-	-	≤1.00	≤1.50	≤0.030	≤0.015	-
2	H08810	NS1102	0.050- 0.10	19.00- 23.00	30.00- 35.00	≥39.50	-	-	-	≤0.75	0.15- 0.60	0.15- 0.60	-	-	≤1.00	≤1.50	≤0.030	≤0.015	-
3	H01103	NS1103	≤0.030	24.00- 26.50	34.00- 37.00	Balance	-	-	-	-	0.15- 0.45	0.15- 0.60	-	-	0.30- 0.70	0.50- 1.50	≤0.030	≤0.030	-
4	H08811	NS1104	0.060- 0.10	19.00- 23.00	30.00- 35.00	≥39.50	-	-	-	≤0.75	0.15- 0.60	0.15- 0.60	-	-	≤1.00	≤1.50	≤0.030	≤0.015	Al+Ti 0.85-1.20
5	H08330	NS1105	≤0.080	17.00- 20.00	34.00- 37.00	Balance	-	-	-	≤1.00	-	-	-	-	0.75- 1.50	≤2.00	≤0.030	≤0.030	Sn≤0.025 Pb≤0.0050
6	H01301	NS1301	≤0.050	19.00- 21.00	42.00- 44.00	Balance	12.50- 13.50	-	-	-	-	-	-	-	≤0.70	≤1.00	≤0.030	≤0.030	-
7	H01401	NS1401	≤0.030	25.00- 27.00	34.00- 37.00	Balance	2.00- 3.00	-	-	3.00- 4.00	-	0.40- 0.90	-	-	≤0.70	≤1.00	≤0.030	≤0.030	-
8	H08825	NS1402	≤0.050	19.50- 23.50	38.00- 46.00	≥22.00	2.50- 3.50	-	-	1.50- 3.00	≤0.20	0.60- 1.20	-	-	≤0.50	≤1.00	≤0.030	≤0.030	-
9	H08020	NS1403	≤0.070	19.00- 21.00	32.00- 38.00	Balance	2.00- 3.00	-	-	3.00- 4.00	-	-	8×C- a 1.00	-	≤1.00	≤2.00	≤0.030	≤0.030	-
10	H09925	NS2401	≤0.030	19.50- 22.50	42.00- 46.00	≥ 22.00	2.50- 3.50	-	-	1.50- 3.00	0.10- 0.50	1.90- 2.40	≤0.50	-	≤0.50	≤1.00	≤0.030	≤0.030	-
11	H03101	NS3101	≤0.060	28.00- 31.00	Balance	≤1.00	-	-	-	-	≤0.30	-	-	-	≤0.50	≤1.20	≤0.020	≤0.020	-
12	H06600	NS3102	≤0.15	14.00- 17.00	≥72.00	6.00- 10.00	-	-	-	≤0.50	-	-	-	-	≤0.50	≤1.00	≤0.030	≤0.015	-
13	H06601	NS3103	≤0.10	21.00- 25.00	58.00- 63.00	Balance	-	-	-	≤1.00	1.00- 1.70	-	-	-	≤0.50	≤1.00	≤0.030	≤0.015	-
14	H03104	NS3104	≤0.030	35.00- 38.00	Balance	≤1.00	-	-	-	-	0.20- 0.50	-	-	-	≤0.50	≤1.00	≤0.030	≤0.020	-
15	H06690	NS3105	≤0.050	27.00- 31.00	≥58.00	7.00- 11.00	-	-	-	≤0.50	-	-	-	-	≤0.50	≤0.50	≤0.030	≤0.015	-
16	H10001	NS3201	≤0.050	≤1.00	Balance	4.00- 6.00	26.00- 30.00	-	≤2.50	-	-	-	-	0.20- 0.40	≤1.00	≤1.00	≤0.030	≤0.030	-
17	H10665	NS3202	≤0.020	≤1.00	Balance	≤2.00	26.00- 30.00	-	≤1.00	-	-	-	-	-	≤1.00	≤1.00	≤0.040	≤0.030	-
18	H03301	NS3301	≤0.030	14.00- 17.00	Balance	≤8.00	2.00- 3.00	-	-	-	-	0.40- 0.90	-	-	≤0.70	≤1.00	≤0.030	≤0.020	-
19	H03302	NS3302	≤0.030	17.00- 19.00	Balance	≤1.00	16.00- 18.00	-	-	-	-	-	-	-	≤0.70	≤1.00	≤0.030	≤0.030	-
20	H03303	NS3303	≤0.08	14.50- 16.50	Balance	4.00- 7.00	15.00- 17.00	3.00- 4.50	≤2.50	-	-	-	-	≤0.35	≤1.00	≤1.00	≤0.040	≤0.030	-
21	H10276	NS3304	≤0.010	14.50- 16.50	Balance	4.00- 7.00	15.00- 17.00	3.00- 4.50	≤2.50	-	-	-	-	≤0.35	≤0.080	≤1.00	≤0.040	≤0.030	-
22	H06455	NS3305	≤0.015	14.00- 18.00	Balance	≤3.00	14.00- 17.00	-	≤2.00	-	-	≤0.70	-	-	≤0.080	≤1.00	≤0.040	≤0.030	-
23	H06625	NS3306	≤0.10	20.00- 23.00	Balance	≤5.00	8.00- 10.00	-	≤1.00	-	≤0.40	≤0.40	3.15- 4.15	-	≤0.50	≤0.50	≤0.015	≤0.015	-
24	H06022	NS3308	≤0.015	20.00- 22.50	Balance	2.00- 6.00	12.50- 14.50	2.50- 3.50	≤2.50	-	-	-	-	≤0.35	≤0.080	≤0.50	≤0.020	≤0.020	-
25	H06230	NS3313	0.050- 0.15	20.00- 24.00	Balance	≤3.00	1.00- 3.00	13.00- 15.00	≤5.00	-	≤0.50	-	-	-	0.25- 0.75	0.30- 1.00	≤0.030	≤0.015	La:0.0050-0.050, B≤0.0050
26	H03401	NS3401	≤0.030	19.00- 21.00	Balance	≤7.00	2.00- 3.00	-	-	1.00- 2.00	-	0.40- 0.90	-	-	≤0.70	≤1.00	≤0.030	≤0.030	-
27	H04101	NS4101	≤0.050	19.00- 21.00	Balance	5.00- 9.00	-	-	-	-	0.40- 1.00	2.25- 2.75	0.70- 1.20	-	≤0.80	≤1.00	≤0.030	≤0.030	-
28	H07718	NS4301	≤0.080	17.00- 21.00	50.00- 55.00	Balance	2.80- 3.30	-	≤1.00	≤0.30	0.20- 0.80	0.65- 1.15	4.75- 5.50	-	≤0.35	≤0.35	≤0.015	≤0.015	= Ni Ni+Co = Nb Nb+Ta; B≤0.0060
29	H02200	NS5200	≤0.15	-	≥99.00	≤0.40	-	-	-	≤0.25	-	-	-	-	≤0.35	≤0.35	-	≤0.010	-
30	H02201	NS5201	≤0.020	-	≥99.00	≤0.40	-	-	-	≤0.25	-	-	-	-	≤0.35	≤0.35	-	≤0.010	-
31	H02211	NS5211	≤0.020	-	≥93.70	≤0.75	-	-	-	≤0.25	-	-	-	-	≤0.15	4.25- 5.25	-	≤0.015	-
32	H04400	NS6400	≤0.30	-	≥63.00	≤2.50	-	-	-	28.00- 34.00	-	-	-	-	≤0.50	≤2.00	-	≤0.024	-
33	H05500	NS6500	≤0.25	-	≥63.00	≤2.00	-	-	-	27.00- 33.00	2.30- 3.15	0.35- 0.85	-	-	≤0.50	≤1.50	-	≤0.010	-

Note: For comparison of domestic and foreign alloy grades, see GB/T 15007. Footnote a: Nb means Nb + Ta where indicated. Other composition notes shown in the source table include combined-element limits such as Al+Ti and Ni+Co, and trace-element limits for Sn, Pb, La and B.

7.2 Mechanical Properties

7.2.1 For bars delivered in the hot-rolled (forged) condition, the mechanical properties of test-piece blanks after solution treatment shall comply with Table 2; after solution treatment and aging, they shall comply with Table 3. For NS6500 delivered hot-rolled (forged), test-piece blanks shall be taken from bars in the delivery condition and, after aging, shall comply with Table 3. The requirements in Tables 2 and 3 apply to bars with diameters not exceeding 80 mm. Bars over 80 mm may be re-rolled (forged) to 80 mm before sampling, and shall then comply with Tables 2 and 3.

Table 2 - Mechanical Properties after Solution Treatment

No.	Unified designation	Grade	Recommended heat-treatment temperature / °C	Rp0.2 / MPa, min.	Rm / MPa, min.	A / %, min.
1	H08800	NS1101	1000-1060	205	515	30
2	H08810	NS1102	1100-1170	170	450	30
3	H01103	NS1103	1000-1050	205	515	30
4	H08811	NS1104	1120-1170	170	450	30
5	H08330	NS1105	1040-1090	207	483	30
6	H01301	NS1301	1150-1200	240	590	30
7	H01401	NS1401	1000-1050	215	540	35
8	H08825	NS1402	1000-1050	240	590	30
9	H08020	NS1403	1000-1050	215	540	35
10	H09925	NS2401	1010-1065	241	517	35
11	H03101	NS3101	1050-1100	245	570	40
12	H06600	NS3102	1000-1050	240	550	30
13	H06601	NS3103	1100-1150	195	550	30
14	H03104	NS3104	1080-1120	195	520	35
15	H06690	NS3105	1000-1050	240	550	30
16	H10001	NS3201	1140-1190	310	690	40
17	H10665	NS3202	1040-1090	350	760	40
18	H03301	NS3301	1050-1100	195	540	35
19	H03302	NS3302	1160-1210	295	735	30
20	H03303	NS3303	1160-1210	315	690	30
21	H10276	NS3304	1150-1200	285	690	40
22	H06455	NS3305	1050-1100	275	690	40
23	H06625	NS3306	1100-1150	275	690	30
24	H06022	NS3308	1100-1150	310	690	45
25	H06230	NS3313	1177-1246	310	760	40
26	H03401	NS3401	1050-1100	195	590	40
27	H02200	NS5200	815-925	105	380	40
28	H02201	NS5201	760-870	70	345	40
29	H02211	NS5211	760-870	70	345	40
30	H04400	NS6400	800-982	170	480	35

Table 3 - Mechanical Properties after Aging Treatment

Unified designation	Grade	Solution treatment	Aging	Rp0.2 / MPa min.	Rm / MPa min.	A / % min.	Aku / J min.	Hardness HRC
NS4101	NS4101	1080-1100 °C, rapid cooling	750-780 °C for 8 h, air cool; 620-650 °C for 8 h, air cool	690	910	20	80(b)	32
NS4301	NS4301	940-1060 °C, air cooling or rapid cooling	720 °C for 8 h; cool at any rate to 620 °C; hold so total aging time is at least 18 h; air cool	1035	1240	12	-	-
NS6500	NS6500	1080-1150 °C, rapid cooling	Condition 1: 590-610 °C for 8-16 h; furnace cool at 10-15 °C/h to 480 °C; air cool	585(c)	895	20	-	-

Designation	Grade	Solution treatment	Aging	Rp0.2 / MPa min.	Rm / MPa min.	A / % min.	Aku / J min.	Hardness HRC
NS6500	NS6500	Hot-rolled	Condition 2: 590-610 °C for 8-16 h; furnace cool to 540 °C, hold 6 h; furnace cool to 480 °C, hold 8 h; air cool	690	965	20(d)	-	-

a) The selected heat-treatment temperature shall be controlled within ± 15 °C. b) Impact testing may be omitted for bars with nominal diameter below 16 mm. c) For nominal diameter below 25.4 mm, Rp0.2 shall be at least 620 MPa. d) For nominal diameter above 108 mm, elongation after fracture shall be at least 17%.

7.2.2 For bars delivered in the solution-treated condition, test pieces shall be taken from bars in the delivery condition and their mechanical properties shall comply with Table 2. For age-hardenable alloys NS4101, NS4301 and NS6500, test-piece blanks shall be aged before testing and shall comply with Table 3. For bars over 80 mm in diameter, mechanical-property requirements shall be agreed between supplier and purchaser.

7.2.3 The diameter of the test-piece blank shall be 25 mm. When the bar diameter is below 25 mm, the bar may be directly solution-treated or aged and then made into a test piece for inspection.

7.3 Macrostructure

No visually detectable residual shrinkage cavities, blowholes, inclusions or cracks shall be present on transverse acid-etched macrostructure specimens from the bars.

7.4 Ultrasonic Testing

Bars shall be ultrasonically tested. For nominal diameters not exceeding 80 mm, results shall comply with Grade A of GB/T 4162-2022; for nominal diameters over 80 mm, results shall comply with Grade B.

7.5 Surface Quality

7.5.1 Hot-rolled (forged) and ground hot-rolled (forged) bars

7.5.1.1 Bars for pressure working. Surfaces shall be free from cracks, laps, scabs, inclusions and other defects detrimental to use. Such defects shall be removed. Removal depth, measured from the actual bar size, shall comply with Table 4. Isolated minor scratches, pits, indentations and similar imperfections are permitted provided their depth from the actual size does not exceed one-half of the dimensional tolerance.

Table 4 - Maximum Permissible Removal Depth of Surface Defects for Bars for Pressure Working

Nominal diameter or side length / mm	Maximum permissible defect-removal depth
≤80	One-half of dimensional tolerance
>80-150	Dimensional tolerance
>150	5% of nominal size

7.5.1.2 Bars for machining. Isolated minor cracks, pits, scratches, depressions and similar imperfections are permitted. Their depth measured from nominal size shall comply with Table 5.

Table 5 - Permissible Depth of Surface Imperfections for Bars for Machining

Nominal diameter or side length / mm	Permissible imperfection depth
≤80	One-half of dimensional tolerance
>80-150	Dimensional tolerance
>150	4% of nominal size, but not less than the permitted minimum size

7.5.2 Peeled bars

The surface quality of peeled bars shall comply with GB/T 3207-2008.

7.5.3 Turned bars

Turned bars shall be free from cracks, laps, scratches, depressions, scabs, scale and other defects affecting use. Local defects may be removed, but the diameter after removal shall not be below the minimum diameter. Isolated scratches and spiral marks are permitted if their depth from the nominal diameter does not exceed one-half of the diameter tolerance.

7.6 Dimensions, Shape and Mass

7.6.1 Dimensions and shape

The dimensions, shape and permissible deviations of bars shall comply with Table 6. Other dimensions and shapes may be specified by agreement between supplier and purchaser and stated in the contract.

Table 6 - Dimensions, Shape and Permissible Deviations of Bars (mm)

Bar type	Permissible deviation	Length and tolerance	Straightness	Roundness / square-bar diagonal	Ends
Hot-rolled; hot-rolled and ground	GB/T 702-2017, Table 1, Group 2	GB/T 702-2017, Table 5	GB/T 702-2017, Table 10, Group 2	GB/T 702-2017, Table 9	GB/T 702-2017, 5.1.6
Peeled (a)	GB/T 3207-2008, Table 4, grade h11	GB/T 3207-2008	GB/T 3207-2008	GB/T 3207-2008	GB/T 3207-2008
Hot-forged	GB/T 908-2019, Table 1, Group 2	GB/T 908-2019, 4.3	GB/T 908-2019, 4.4.1.1 and 4.4.1.2		GB/T 908-2019, Table 5
Hot-forged and ground	GB/T 908-2019, Table 3, Group 2	GB/T 908-2019, 4.3	GB/T 908-2019, 4.4.2		GB/T 908-2019, Table 5
Hot-forged and turned	GB/T 908-2019, Table 4	GB/T 908-2019, 4.3	GB/T 908-2019, 4.4.3		GB/T 908-2019, Table 5

a) The diameter tolerance for peeled bars applies only to portions more than 100 mm from the ends.

7.6.2 Mass

Bars shall be delivered by actual mass.

7.7 Special Requirements

At the purchaser's request, subject to agreement between supplier and purchaser and specification in the contract, supplementary requirements may be established for other grades and chemical compositions, elevated-temperature tensile properties, grain size, nonmetallic inclusions, intergranular corrosion, special melting methods, delivery conditions, or other dimensions, shapes and permissible deviations.

8 Test Methods

8.1 Inspection items and test methods for bars shall comply with Table 7.

Table 7 - Inspection Items, Sampling Quantity, Sampling Location and Test Methods

No.	Inspection item		Sampling quantity	Sampling location	Test method
1	Chemical composition		1 / heat	GB/T 20066	See 8.2
2	Mechanical properties	Room-temperature tensile	2 / batch	Different bars; GB/T 2975	GB/T 228.1
3		Elevated-temperature tensile	2 / batch	Different bars; GB/T 2975	GB/T 228.2
4		Impact	2 / batch	Different bars; GB/T 2975	GB/T 229
5	Hardness		2 / batch	Different bars	GB/T 230.1
6	Macrostructure		1 / batch	Any bar, corresponding to ingot head	GB/T 14999.2
7	Ultrasonic testing		Each bar	-	GB/T 4162-2022
8	Grain size		1 / batch	Any bar	GB/T 6394
9	Nonmetallic inclusions		2 / batch	Different bars	Method A of GB/T 10561-2023
10	Intergranular corrosion		1 / batch	Any bar	GB/T 15260 or as agreed
11	Surface quality		Each bar	-	Visual inspection
12	Dimensions and shape		Each bar	-	General measuring instruments

8.2 Chemical analysis shall be carried out in accordance with GB/T 223 (all parts), GB/T 8647 (all parts), GB/T 20123, GB/T 36164, GB/T 38939, YB/T 4395 or YS/T 325.2, as applicable. In case of arbitration analysis, the method shall be agreed between supplier and purchaser.

9 Inspection Rules

9.1 Inspection and acceptance

Inspection and acceptance of bars shall be carried out by the supplier's quality and technical supervision department. The purchaser has the right to inspect and accept the bars in accordance with this document.

9.2 Batch rules

Bars shall be submitted for inspection and acceptance in batches. Each batch shall consist of bars of the same grade, heat number, dimensions, delivery condition and heat-treatment furnace batch.

9.3 Sampling quantity and location

Sampling quantity and sampling location shall comply with Table 7.

9.4 Retest and determination rules

9.4.1 If the chemical-composition analysis of bars is nonconforming, resampling and retesting of the nonconforming element is permitted. The number of samples shall be the same as for the initial test. If the retest is still nonconforming, the heat shall be rejected.

9.4.2 If ultrasonic testing, dimensions, shape or surface-quality inspection is nonconforming, the individual bar shall be rejected.

9.4.3 If mechanical properties, hardness, macrostructure, grain size, nonmetallic inclusions or intergranular-corrosion testing is nonconforming, twice the original number of specimens may be taken at random from the batch (including the originally nonconforming bar) for retesting. If any one retest specimen is nonconforming, the batch shall be rejected.

9.4.4 The supplier may reprocess bars that fail retesting and submit them for inspection as a new batch.

9.5 Rounding of Test Results

Test results specified in this document shall be rounded using the rounded-value comparison method. Rounding rules shall comply with GB/T 8170.

10 Packaging, Marking and Quality Certificate

Packaging, marking and quality certificates for bars shall comply with GB/T 2101.

References

[1] GB/T 15007 - Designation of corrosion-resistant alloys.

Translation note: This English PDF is an unofficial translation prepared from the supplied Chinese standard. In case of discrepancy, the Chinese original governs.