

ICS 77.140.50

CCS H 46



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

GB/T 30068-2025

Replacing GB/T 30068-2013

Cold rolled steel sheet and strip for appliances

家电用冷轧钢板及钢带

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 Classification and designation expression methods	6
5 Ordering contents	8
6 Manufacturing process	8
7 Technical requirements	9
8 Test methods	12
9 Inspection rules	13
10 Packaging, marks, and quality certificate	13
Annex A (informative) Brief introduction to designations and applications	14
Annex B (informative) Types of oiling for cold rolled steel sheet and strip for appliances..	15
Annex C (informative) Chemical composition of steel	16
Annex D (informative) Conversion between HR30T, HV1, and HRB	17

1 Scope

This document specifies the classification and designation of cold rolled steel sheets and strips for appliances, ordering information, manufacturing processes, technical requirements, test methods, inspection rules, packaging, marks, and quality certificates.

This document applies to cold rolled steel sheets and strips for appliances with a thickness ranging from 0.25 mm~3.00 mm (hereinafter referred to as "steel sheets and strips").

2 Normative references

GB/T 222

GB/T 223

GB/T 228.1

GB/T 230.1

GB/T 232

GB/T 247

GB/T 708

GB/T 2523

GB/T 2975

GB/T 4336

GB/T 4340.1

GB/T 8170

GB/T 17505

GB/T 20066

GB/T 20123

GB/T 20125

3 Terms and definitions

This document contains no terms or definitions requiring definition.

4.1 Classification

4.1.1 The designations of steel sheets and strips are classified according to steel type characteristics, as shown in Table 1.

Table 1 -- Classification of steel designations and steel type characteristics
4.1.2 Steel sheets and strips are classified according to surface quality in Table 2.

1 - A numerical serial number.

5 Ordering contents

5.1 Contracts or orders placed pursuant to this document shall include, at a minimum, the following contents.

- a) product name (steel sheet and strip);
- b) reference to this document;
- c) designation;
- d) specifications, dimensions, and dimensional accuracy;
- e) coil inner diameter (508 mm or 610 mm);
- f) surface quality level;
- g) surface finish;

- h) edge condition (trimmed or untrimmed);
- i) oiling type (uncoiled, lightly oiled, moderately oiled, or heavily oiled);
- j) packaging method;
- k) weight;
- l) application;
- m) other special requirements.

5.2 Unless otherwise specified in the order contract regarding dimensions, unevenness

tolerance, surface quality grade, surface finish, edge condition, packaging method, and other details, the products covered by this document shall be supplied as steel sheets or strips featuring standard dimensional tolerance, enhanced flatness tolerance, premium surface quality, a matte finish, slit edges, and a light oil coating. Furthermore, they shall be packaged in accordance with the packaging method provided by the supplier. If the inner diameter of the steel coils is not specified, it shall be supplied at 610 mm.

6.1 Smelting method

The steel shall be smelted in a converter or an electric furnace. Unless the purchaser has specific requirements expressly stipulated in the contract, the smelting method shall be selected by the supplier.

6.2 Delivery condition

6.2.1 Steel sheets and strips shall be delivered in an annealed and flattened condition.

6.2.2 Steel sheets and strips are typically supplied with an oil coating. The applied oil film shall be removable using an alkaline aqueous solution or common solvents. Under standard conditions of packaging, transportation, handling, and storage, lightly oiled steel sheets and strips shall remain free of rust for a period of three months from the date of manufacture; medium-oiled and heavily oiled steel sheets and strips shall remain free of rust for a period of six months from the date of manufacture. For the oil coating weights corresponding to each coating type, please refer to Annex B.

NOTE 1. For products requested by the purchaser to be supplied either uncoated or treated with DOS oil, rust formation may occur. Furthermore, during the processes of transportation, handling, storage, and usage, the surface is susceptible to minor scratches.

NOTE 2. Typically, the issuance date specified in product inspection documents is designated as the date on which the product's manufacturing was completed.

7.1.1 Reference values for the chemical composition (ladle analysis) of steel are provided in Annex C.

7.1.2 If specific requirements regarding chemical composition exist, they may be agreed

upon at the time of order placement. The allowable deviations for the chemical composition of the finished steel shall comply with the provisions of GB/T 222.

7.2 Mechanical properties

7.2.1 The tensile properties of steel sheets and strips shall comply with the requirements specified in Table 6.

7.2.2 Reference hardness values for steel sheets and strips are shown in Table 6.