

ICS 77.140.01

CCS H 40



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

GB/T 34560.5-2017

**Structural steels -- Part 5: Technical delivery condition for
atmospheric corrosion resisting steels**

(English Translation)

Issued on: October 14, 2017

Implemented on: July 1, 2018

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

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Foreword

GB/T 34560 "Structural steels" is divided into 6 parts:

- Part 1: General technical delivery condition for hot-rolled products;
- Part 2: Technical delivery conditions for structural steels for general purposes;
- Part 3: Technical delivery conditions for fine grain structural steels;
- Part 4: Technical delivery conditions for high yield strength quenched and tempered structural steel plates;
- Part 5: Technical delivery condition for atmospheric corrosion resisting steels;
- Part 6: Technical delivery conditions for seismic-improved structural steels for building.

This Part is Part 5 of GB/T 34560.

This Part is drafted in accordance with the rules given in GB/T 1.1-2009.

This Part uses redraft law to modify and adopt ISO 630-5:2014 "Structural steels - Part 5: Technical delivery conditions for structural steels with improved

atmospheric corrosion resistance".

This Part, compared with ISO 630-5:2014, has structural adjustments. Annex A lists a comparison table of clause-subclause number of this Part and ISO 630-5:2014.

This Part, compared with ISO 630-5:2014, has technical differences. The clauses involved in these differences have been marked by a vertical single line (|) at the blank of the outer margin. Annex B gives a table of the corresponding technical differences and their causes.

This Part also makes the following editorial changes:

- Delete Bibliography of ISO 630-5:2014;
- ADD informative Annex F;
- ADD informative Annex G.

This Part was proposed by China Iron and Steel Association.

Structural steels - Part 5: Technical delivery condition
for atmospheric corrosion resisting steels

1 Scope

This Part of GB/T 34560 specifies the terms and definitions, classification and designation representation, order content, dimensions and tolerances on dimensions, shape, and mass, technical requirements, test methods, inspection rules, packaging, marking, and certification of atmospheric corrosion resisting structural steels.

This Part applies to steel plates and strips, wide flats, section steels, and bars (hereinafter referred to as "steels") with nominal thickness or diameter not exceeding 200 mm for welding or bolting.

2 Normative references

The following documents are indispensable for the application of this document.

For the dated references, only the editions with the dates indicated are applicable to this document. For the undated references, the latest edition

(including all the amendments) are applicable to this document.

GB/T 222 Permissible Tolerances for Chemical Composition of Steel
Products

GB/T 223.5 Steel and iron - Determination of acid-soluble silicon and total
silicon content - Reduced molybdosilicate spectrophotometric method (GB/T
223.5-2008, ISO 4829-1:1986, ISO 4829-2:1988, MOD)

GB/T 223.9 Iron steel and alloy - Determination of aluminium content -
Chrome azurol S photometric method

GB/T 223.11 Iron, steel and alloy - Determination of chromium content -
Visual titration or potentiometric titration method

GB/T 223.12 Methods for chemical analysis of iron, steel and alloy - The
sodium carbonate separation-diphenyl carbazide photometric method for the
determination of chromium content

GB/T 223.14 Methods for Chemical Analysis of Iron, Steel and Alloy - The N-
Benzoyl-N-Phenylhydroxylamine Extraction Photometric Method for the
Determination of Vanadium Content

GB/T 223.16 Methods for chemical analysis of iron, steel and alloy - The
chromotropic acid photometric method for the determination of titanium
content

GB/T 223.19 Methods for chemical analysis of iron steel and alloy - The
neocuproine-chloroform extraction photometric method for the determination
of copper content

GB/T 223.23 Iron, Steel and Alloy - Determination of Nickel Content - The
Dimethylglyoxime Spectrophotometric Method

GB/T 223.25 Methods for chemical analysis of iron, steel and alloy - The
dimethylglyoxime gravimetric method for the determination of nickel content

GB/T 223.26 Iron, steel and alloy - Determination of molybdenum content -
The thiocyanate spectrophotometric method

GB/T 223.40 Iron, Steel and Alloy - Determination of Niobium Content by the Sulphochlorophenol S Spectrophotometric Method

GB/T 223.62 Methods for chemical analysis of iron, steel and alloy - The butyl acetate extraction photometric method for the determination of phosphorus content

GB/T 223.63 Methods for chemical analysis of iron, steel and alloy - The sodium (potassium) periodate photometric method for the determination of manganese content

GB/T 223.68 Methods for Chemical Analysis of Iron, Steel and Alloy - The Potassium Iodate Titration Method after Combustion in the Pipe Furnace for the Determination of Sulfur Content

GB/T 223.69 Iron, steel and alloy - Determination of carbon contents - Gas-volumetric method after combustion in the pipe furnace

GB/T 223.72 Iron, Steel and Alloy - Determination of Sulfur Content - Gravimetric Method

GB/T 223.78 Methods for Chemical Analysis of Iron, Steel and Alloy - Curcumin Spectrophotometric Method for the Determination of Boron Content (GB/T 223.78-2000, idt ISO 10153:1997)

GB/T 223.79 Iron and steel - Determination of multi-element contents - X-ray fluorescence spectrometry (Routine method)

GB/T 223.81 Iron steel and alloy - Determination of total aluminum and total boron contents - Microwave digestion-inductively coupled plasma mass spectrometric method

GB/T 223.84 Steel and iron - Determination of titanium content - Diantipyrylmethane spectrophotometric method (GB/T 223.84-2009, ISO 10280:1991, IDT)

GB/T 223.85 Steel and iron - Determination of sulfur content - Infrared absorption method after combustion in an induction furnace (GB/T 223.85-