

ICS 87.020
CCS G 50



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

GB/T 30790.8-2014

**Paint and varnishes -- Corrosion protection of steel structures
by protective paint systems -- Part 8: Development of
specification for new work and maintenance
(English Translation)**

Issued on: July 8, 2014

Implemented on: December 1, 2014

Issued by: Standardization Administration of China

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Foreword

GB/T 30790 "Paints and varnishes protective coating systems for corrosion protection of steel structures" is divided into eight sections.

--- Part 1. General;

--- Part 2. Classification of environments;

--- Part 3. Design Basis;

- Part 4. Types of surface and surface treatment;
- Part 5. Protective paint systems;
- Part 6. Laboratory performance test methods;
- Part 7. Coating of implementation and management;
- Part 8. Create and maintain technical specifications development.

This section GB/T Part of 830,790.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses redrafted Law Amendment uses ISO 12944-8:1998 "Paints and varnishes protective coating systems for corrosion protection of steel structures Corrosion protection - Part 8. Maintenance and development of technical specifications of the new book. " this part of ISO 12944-8:1998 technical differences exist compared to the terms of these differences has been involved through its outer margins Vertical single-line position (I) have been marked, the list given in Appendix L corresponding technical differences and their causes.

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the National Standardization Technical Committee and the pigment coating (SAC/TC5) centralized.

This section drafted by. CNOOC Changzhou coating Chemical Research Institute, COSCO Kansai Paint Chemical Co., Ltd., Shandong Pentium Paint Co., Limited Division of Chemical Co., Ltd. Ningbo, Hempel (China) Co., Ltd. Zhejiang fly whale Paint Co., Ltd., Shenzhen Hirota Decoration Group Co. Shares the company, Ye Jian new materials Co., Ltd., Beijing Air Materiel Biam new materials technology Engineering Company Limited.

1 Scope

GB/T 30790 in this section discusses the use of protective coating systems for corrosion protection of steel structures when technical specifications development.

Involved in the workshop or on-site maintenance and new paint and corrosion protection of individual workpieces. This section concerns exposure to different stress corrosion ring Defense. (indoor, outdoor, immersed in water or buried in the soil, as well as special or high temperature stress generated by China, for example) of the steel structure under ambient conditions Corrosion protection. Therefore, the durability of different ranges need to be considered.

This section also includes a hot-dip galvanizing, metal spraying, electro-galvanized or powder galvanized steel surface and painted steel surface Protection.

Appendix B describes the assessment of corrosion protection and construction quality of the protective paint system performance reference surface. Appendices C and D to mention

A detailed flowchart for planning new and maintenance painting protection, it should be considered in the preparation of technical specifications.

If there is extreme stress corrosion or high temperature conditions exist, or protective coating system applied to other substrates, for example, or non-ferrous metals Concrete, in the preparation of the technical specifications of these factors should also be considered. GB/T 30790 in this section can also be used as guidance in this case.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 5210 Paints and varnishes - Pull - off adhesion test (GB/T 5210-2006, ISO 4624:2002, IDT) GB/T 8923.1 steel substrates before application of paints and Visual assessment of surface cleanliness - Part 1. uncoated steel Surface and fully remove the original steel surface coating after Rust grades and grade (GB/T 8923.1-2011, ISO 8501-1. 2007, IDT)

GB/T 8923.2 steel substrates before application of paints and Visual assessment of surface cleanliness - Part 2. already coated steel Local surface treatment after the removal of previous coatings rating (GB/T 8923.2-2008, ISO 8501-2:1994, IDT) GB/T 9286 Paints and varnishes cut test (GB/T 9286-1998, eqv ISO 2409:1992) GB/T 13288.1 steel surface roughness characteristics - Part 1 before application of paints and spray steel surface treatment after cleaning. for Evaluation after injection technology requirements and definitions ISO cleaned steel surface roughness of the surface roughness comparison specimens (GB/T 13288.1-2008, ISO 8503-1. 1988, IDT) Part 2 steel surface blast cleaned steel surface before the GB/T 13288.2-2011 coated paint finish characteristics Score. Determination after abrasive blast cleaning of steel surface roughness comparison specimens grade method (ISO 8503-2. 1988, IDT) GB/T 13288.3 steel surface blast cleaned steel substrates before application of paints roughness characteristics - Part 3. ISO Calibration of surface roughness and surface roughness measurement method comparison specimens microscope focusing method (GB/T 13288.3-2009, ISO 8503-3. 1988, IDT) GB/T 13452.2 Paints and varnishes - Determination of film thickness (GB/T 13452.2-2008, ISO 2808:2007, IDT) GB/T 13452.4 Paints and varnishes on the steel surface coating filiform corrosion resistance test (GB/T 13452.4-2008, ISO 4623-1:2000, IDT)