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

GB/T 30789.3-2014

**Paints and varnishes-Evaluation of degradation of coatings-Designation of
quantity and size of defects,and of intensity of uniform changes in
appearance-Part 3:Assessment of degree of rusting**

色漆和清漆 涂层老化的评价 缺陷的数量和大小以及外观均匀变化程度的标识 第3
部分：生锈等级的评定

(English Translation)

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Foreword

GB/T 30789 "Paints and varnish coating aging rating number and size of the defect and the identity of the extent of uniform changes in appearance." Divided into the following nine sections.

- Part 1. General and identification systems;
- Part 2. Evaluation of blistering levels;
- Part 3. Evaluation of rust grade;
- Part 4. Evaluation cracking grade;
- Part 5. Evaluation of flaking grade;
- Part 6. Assessment of degree of chalking tape method;
- Part 7. Method for Evaluation of velvet cloth chalking rating;
- Part 8. scribe or other artificial defect assessment and corrosion peeling peripheral level;
- Part 9. Evaluation of filiform corrosion level.

This section GB/T Part of 330,789.

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

This section uses the translation method identical with ISO 4628-3:2003 "number and size of paints and varnishes Evaluation of degradation of coatings defects as well as the appearance of a uniform degree of change identification - Part 3. Rusty rating assessment. " 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.

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1 Scope

GB/T 30789 in this section gives a comparative assessment with the standard picture Rusty level approach.

This section gives a standard image shows the comprehensive destruction of painted steel surface penetrating coating of rust and observed under a coating of corrosion grade.

Note 1: The standard image is selected in the "European rust hierarchy", the European Union paints, inks and artists' colors Manufacturers Association Publishing (CEPE), author Brussels. GB/T 30789.3 Rusty Rusty European hierarchy and the hierarchy comparison, see Appendix B, Table B.1.

Note 2: GB T 30789.3 relatively Attachment/rust rating system and test method standards assessment ASTM D610 painted steel surface rust rating system Record B, Table B.2.

Note 3: Evaluation of uncoated steel surfaces before application of paints based rust steel surface cleanliness - Visual assessment - Part 1. uncoated Steel surface and the overall removal of previous coatings after the steel surface rust grades and preparation grades (rust grades A, B, C and D).

ISO 4628-1 defines the number and size of defects on the coating due to aging and the changes in the appearance of uniformity assessment systems, and almost General said the assessment system. The assessment system is suitable for natural and artificial accelerated aging caused by exposure defects and uniform changes such as color change of, for example. yellowing.

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.

ISO 4628-1:2003 as well as the number and size of uniform changes in appearance degree of paints and varnishes Evaluation of degradation of coatings defects Identification - Part 1. General and identification system

(Paints and varnishes-Evaluation of degradation of coatings-Designation of quantity and size of defects, and of intensity of uniform changes in appearance-Part 1.

General introduction and designation system)

3 Terms and Definitions

The following terms and definitions apply to this document.

Rusty grade Ri degree of rusting Rust coating (through the coating and corrosion can be observed under the coating rust) Evaluation.

4 Evaluation

1 to 5 according to FIG rust coating was rated level Ri. Table 1 shows the different rust grades Ri corresponding rust area.

If desired, the assessment can not be observed visually rust under the coating method of rating, agreed by the relevant parties.

If the area to be assessed in different parts of the rust grade is inconsistent, it should describe each site appeared rusty levels.