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

GB/T 30789.9-2014

**Paints and varnishes -- Evaluation of degradation of coatings -- Designation of
quantity and size of defects, and of intensity of uniform changes in appearance --
Part 9: Assessment of degree of filiform corrosion**

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9
部分：丝状腐蚀等级的评定

(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 930,789.

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

This section uses the translation method identical with ISO 4628-10:2003 "Paints and varnish coating aging quantity evaluation of defects and large Part 10 small degree of uniformity and appearance change logo. Evaluation of filiform corrosion level. " 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

This section GB/T 30789 is given by measuring the scratches caused by filamentous corrosion longest filament length L and the most frequent Filaments filiform corrosion length M thus assessed approach.

Part A of this Appendix with the legend of filiform corrosion longest filament length L and the most frequently occurring filaments of different lengths M grade. Appendix A test model in Figure 12 Comparative figures can not replace the necessary assessment (Tier 1 or Tier 2).

2 Terms and definitions

The following terms and definitions apply to this document.

Filiform corrosion Occur in paint, varnish or related products, coatings, usually from the exposed edges of coating or partial destruction of a linearly beginning corrosion.

Note 1: the usual filiform corrosion and extend the length direction is erratic, but they can be regarded as approximately parallel and approximately of equal length.

Note 2: filiform corrosion may also occur under other protective coating.

Note 3: In general, the filamentous texture metal corrosion along the substrate surface extending across not cross, and was originally caused by the corrosive ions.

[GB/T 13452.4-2008 and GB/T 26323-2010]

3.1 General

Assessed under good lighting conditions.

3.2 Method 1

For regular filamentous corrosion [see Figure 1a)], comprising.

--- Are measured out by the scratches to filiform corrosion to the left and to the right of development longest filament length LI and Lr [see Figure 1a)], in milli Meters, calculate the average of LI and Lr L;

--- Are measured out by the scratches to filiform corrosion to the left and the most frequent filament length MI to the right of development and Mr [see Fig.

1a)], in millimeters, the average value calculated M_l and M_r .