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

GB/T 9279.2-2015

**Paints and varnishes -- Determination of scratch resistance --
Part 2: Variable-loading method**

色漆和清漆 耐划痕性的测定 第2部分：负荷改变法
(English Translation)

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Foreword

GB/T 9279 "Paints and varnishes - Determination of scratch resistance" is divided into two parts.

--- Part 1. Constant load method;

--- Part 2. load shift assay.

This section GB/T 9279 Part 2.

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

This section uses the translation method identical with the international standard ISO 1518-2:2011 section "Paints and varnishes - Determination of scratch resistance of 2 Score. load shift assay. " Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 3186-2006 Paints, varnishes and raw materials for paints and varnishes - Sampling (ISO 15528:2000, IDT);

--- GB/T 9271-2008 Paints and varnishes standard test panels (ISO 1514:2004, MOD);

--- GB/T 13452.2-2008 Paints and varnishes - Determination of film thickness (ISO 2808:2007, IDT);

--- GB/T 20777-2006 Paints and varnishes examination and preparation of samples (ISO 1513:1992, IDT).

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 9279 provides for one kind of load applied by a continuous increase in the steeple of the stylus, with the needle spire determined color Topcoat paint, varnish or related product single coating or composite coating system scratch resistance method.

This test method has been demonstrated for comparing different coating scratch resistance is useful. This test method for display in terms of scratch resistance There are significant differences in paint test panel determined that the relative range level is useful.

This section and none of the provisions of ISO 1518-1 with curved stylus method, the method specified in the ISO 12137. In the three methods of Choose between it will depend on the particular situation.

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 1513 inspection and preparation of samples for paints and varnishes
(Paintsandvarnishes-Examinationandpreparation oftestsamples) Paints and varnishes ISO 1514 standard test panels (Paintsandvarnishes-Standardpanelsfortesting) ISO 2808 Paints and varnishes - Determination of film thickness
(Paintsandvarnishes-Determinationoffilmthick-ness) ISO 15528 Paints, varnishes and raw materials for paints and varnishes - Sampling (Paints, varnishesandrawmaterialsfor paintsandvarnishes-Sampling)

3 Terms and Definitions

The following terms and definitions apply to this document.

Scratch

By contact with sharp objects formed through the coating surface cuts or scratches.

Principle 4

The test product or system to be applied in a uniform thickness having a uniform surface texture of the flat plate test. After drying/curing, automatic of the tester to promote under the steeple stylus test plate was measured scratch resistance, stylus is mounted in a vertical downward pressure way to test plate table Surface. Continuous increase in the load until the coating test panel was scratched so far.

5 Instruments

5.1

Determination of scratch resistance of the instrument. a stylus scratches meter steeple.