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

GB/T 23764-2009

Test method of photocatalytic materials for self-cleaning

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(English Translation)

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Foreword

The revised standard Japanese standard JISR1703-1:2007 "self-cleaning performance test method photocatalyst material Part I. Water Measurement of contact angle "(Japan Version).

This standard is based on the Japanese standard JISR1703-1:2007 "self-cleaning performance test method photocatalyst material Part I. water contact Determination of corner "drafting.

Taking into account China's national conditions, the Japanese standard JISR1703-1:2007 "self-cleaning performance test method first photocatalyst material Parts. water contact angle measurement ", the present standard do some modifications. About the technical differences have been incorporated into the body of the article and in which they are involved Paragraph margin identified by a single vertical line. These technical differences are given in Appendix A and Appendix B, the structural differences and their causes the list for reference.

This standard Annex A, Annex B, Annex C is informative appendix.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standardization Technical Committee chemical inorganic chemicals Club (SAC/TC63/SC1) centralized.

1 Scope

This standard specifies the terms and definitions of photocatalytic self-cleaning materials performance testing methods, safety tips, general provisions, the principle, reagents, provided Equipment, test environment, sample preparation, test report analysis step, the results of calculations.

This standard applies to be prepared as a planar self-cleaning materials.

This standard does not apply to the use of darkness and photocatalytic visible light response type of cleaning materials, water permeability and water can infiltrate from material.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 6682-2008 analytical laboratory use specifications and test methods (ISO 3696. 1987, MOD)

3 Terms and Definitions

The following terms and definitions apply to this standard.

In certain light excitation, the resulting catalyst, called photocatalysis.

Under certain conditions, can keep the surface clean easily contaminated properties.

4 Safety Tips

UV light source used in this test method to the human eye and skin has injury, the operator should be careful! Note that the reactor should be closed, Do not open when the light source directly observed with the eyes.

Reagents used in this test method is corrosive, the operator must be careful! As splashed on the skin should immediately wash with water, Yan in severe cases should be treated immediately.

5 General Provisions

This standard reagents and water, did not indicate when the other requirements, refer to analytically pure reagents and GB/T 6682-2008 stipulated three Grade water.

Principle 6

To evaluate the self-cleaning performance of photocatalytic materials by minimizing the contact angle of the test sample. First on the sample surface attached to organic matter (front office Li), the use of certain UV irradiated, and then measuring the change in the contact angle of the process, to characterize the nature of the sample is self-cleaning.

7 Reagents

7.1

oleic acid. purity (mass fraction) is greater than 60.0%;