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

GB/T 33312-2016

**Binders for paints and varnishes -- Polyisocyanate resins --
General methods of test**

色漆和清漆用漆基 多异氰酸酯树脂 通用试验方法

(English Translation)

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the re-drafting method to amend the use of international standards ISO 11909.:2007 "paint and varnish with paint base polyisocyanate resin General test method ".

There are technical differences between this standard and ISO 11909.:2007, and the terms involved in these differences have been passed through the margins in their outer margins the vertical single line (|) is marked, and a list of the corresponding technical differences and their causes is given in Appendix B.

This standard has also made the following editorial changes.

--- Added information Appendix B.

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

This standard is under the jurisdiction of the National Committee for Standardization of Coatings and Pigments (SAC/TC5).

This standard drafting unit. CNOOC Changzhou Paint Chemical Research Institute Co., Ltd., Guangzhou standard grid laboratory equipment supplies Co., Ltd.

(Foshan) Chemical Co., Ltd., China Aviation Bermuda New Materials Technology Engineering Co., Ltd., Jia Bao Li Chemical Group Co., Ltd., Shenzhen City Guangtian Environmental Coatings Co., Ltd.

1 Scope

This standard specifies a general test of polyisocyanate resins and polyisocyanate resin solutions used as paint bases for paints, varnishes and related products.

Test method.

This standard is applicable to the determination of polyisocyanate resin and polyisocyanate resin solution for paint base, varnish and related products.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article. For undated references, the latest edition (including all modifications) applies to this document.

Preparation of standard titration solution for GB/T 601 chemical reagents Preparation of preparations and preparations for use in the test methods for chemical reagents GB/T 603 GB/T 1725 Determination of nonvolatile content of paints, varnishes and plastics (GB/T 1725-2007, ISO 3251.:2003, IDT) GB/T 3186 Sampling of raw materials for paints, varnishes and varnishes and varnishes (GB/T 3186-2006, ISO 15528.:2000, IDT) GB/T 5208 Flash point measurement method Quick balance closed cup method (GB/T 5208-2008, ISO 3679.:2004, IDT) GB/T 6682 Analytical laboratory water specifications and test methods (GB/T 6682-2008, ISO 3696. 1987, MOD) GB/T 6750 Determination of paint and varnish density Pile method (GB/T 6750-2007, ISO 2811-1.:1997, IDT) GB/T 9281.1 Transparent liquid - plus color grading - Part 1. Visual method (GB/T 9281.1-2008, ISO 4630-1.:2004, IDT) GB/T 9282.1 Transparent liquids - Evaluation of color with platinum - cobalt grade - Part 1. Visual method (GB/T 9282.1-2008, ISO 6271-1.:2004, MOD) GB/T 18446 Determination of diisocyanate monomer in paint base polyisocyanate resin for paints and varnishes (GB/T 18446-2009, ISO 10283.:2007, IDT) GB/T 21059 Plastic Liquid or Emulsified or Dispersed Polymer/Resin Viscosity at Specified Shear Rate with Rotational Viscometer (GB/T 21059-2007, ISO 3219.:1993, IDT) GB/T 21775 Determination of flash point Closed cup balance method (GB/T 21775-2008, ISO 1523.:2002, IDT) GB/T 21862.2 Determination of the density of paints and varnishes - Part 2. Falling ball method (GB/T 21862.2-2008, ISO 2811-2.

1997, IDT)

GB/T 21862.3 Determination of the density of paints and varnishes - Part 3. Vibration method (GB/T 21862.3-2008, ISO 2811-3.

1997, IDT)

GB/T 21862.4 Determination of the density of paints and varnishes - Part 4. Pressure cup method (GB/T 21862.4-2008, ISO 2811-4.

1997, IDT)

ISO 4630-2 transparent liquid - plus color rating - Part 2. Spectrophotometric method (Clearliquids -Estimation of colour by the Gardner colour scale-Part 2.

Spectrophotometric method ISO 6271-2 Transparent liquids - Evaluation of color with platinum-cobalt grade - Part 2. Spectrophotometric method (Clearliquids-Estimation of colour by the platinum-cobalt scale-Part 2. Spectrophotometric method)