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NATIONAL STANDARD OF THE
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GB/T 22313-2008 / ISO 14897:2002

Replacing GB/T 12008.6-1989

**Plastics – Polyols for Use in the Production of
Polyurethan – Determination of Water Content**

塑料 用于聚氨酯生产的多元醇 水含量的测定
(ISO 14897:2002, IDT)

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Quarantine;
Standardization Administration of PRC.**

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Foreword

This Standard equivalently adopts ISO 14897:2002 *Plastics – Polyols for Use in the Production of Polyurethan – Determination of Water Content*.

Compared with ISO 14897:2002, the major changes of this Standard are as follows:

- Delete the foreword of ISO 14897:2002; and add the foreword of Chinese standard.
- Add an informative Annex NA "Precision and Bias", which is included in the relevant contents of Clause 13.

This Standard replaced GB/T 12008.6-1989 *Polyether Polyols - Determination of Water Content*.

Compared with GB/T 12008.6-1989, the major changes of this Standard are as follows:

- Change the name of the standard;
- Expand the scope of application. This standard is not only applicable to polyether polyols, but also to polyester polyols and polymer polyols;
- Add the automatic Coulomb method;
- Add "Terms and Definitions", "Applications" and "Interference" (see Clauses 3, 5, and 6);
- Delete the preparation of Karl Fischer reagent in the original standard, Annex A: Sulfur Dioxide Generator, Annex B: "Permanent Stop" Method Coulometric Titrator.

The Annex A and Annex NA of this Standard are informative.

This Standard was proposed by China Petroleum and Chemical Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee on Plastic of Standardization Administration of China (SAC/TC 15).

Drafting organizations of this Standard: Jiangsu Chemical Research Institute Co., Ltd.

Participating drafting organizations of this Standard: SINOPEC Shanghai Gaoqiao Petrochemical Co., Ltd.; SINOPEC Tianjin Shihua; Jiangsu Zhongshan Chemical Co., Ltd.; and China National Quality Supervision and Testing Centre for Synthetic Resin.

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Plastics – Polyols for Use in the Production of Polyurethan – Determination of Water Content

1 Scope

This Standard specifies methods used to measure the water content of polyols employed as polyurethane raw materials. Method A is a manual amperometric method which has been included to better define the principles of the Karl Fischer measurement. Amperometric methods are applicable to a wide range of polyols, including those which have enough colour to obscure a visual end-point. Method B includes an automated amperometric procedure and an automated coulometric procedure. The coulometric procedure is an absolute method that does not require calibration and gives improved sensitivity compared with amperometric methods.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

ISO 3696:1987 Water for Analytical Laboratory Use – Specification and Test Methods

ISO 6353-1:1982 Reagents for Chemical Analysis – Part 1: General Test Methods

ISO 6353-2:1983 Reagents for Chemical Analysis – Part 2: Specifications – First Series

ISO 6353-3:1987 Reagents for Chemical Analysis – Part 3: Specifications – Second Series

3 Terms and Definitions

For the purposes of this Standard, the following terms and definitions apply.

3.1 Polyol

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