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

GB/T 20436-2025

Replacing GB/T 20436-2006

Dimethylsiloxane cyclics mixture

二甲基硅氧烷混合环体

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 20436-2006 "Dimethylsiloxane Mixed Rings". Compared with GB/T 20436-2006, except for the structural adjustment In addition to the integration and editorial changes, the main technical changes are as follows.

a) Added technical requirements for 1,5-dihydroxy-1,1,3,3,5,5-hexamethyltrisiloxane and silane (see Table 1, Appendix A and Appendix B);

b) The test methods for total ring body and hexamethyldisiloxane were changed, and 1,5-dihydroxy-1,1,3,3,5,5-hexamethyltrisiloxane was added.

Test method for alkanes (see Appendix A, 4.5 of the 2006 edition);

c) The inspection rules have been changed (see 6.1, 5.1 of the 2006 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Chemical Standardization (SAC/TC63).

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2006 as GB/T 20436-2006;
- This is the first revision. Dimethylsiloxane mixed ring Warning---People who use this document should have practical experience in laboratory work. This document does not address all safety issues.

It is the responsibility of the operator to take appropriate safety and health measures and ensure compliance with relevant national laws and regulations.

1 Scope

This document specifies the technical requirements, test methods, inspection rules, and marking, packaging, transportation and Storage.

This document is applicable to dimethylsiloxane mixed rings obtained by hydrolysis and cracking of dimethyldichlorosilane as raw material.

The siloxane mixed ring is mainly composed of hexamethylcyclotrisiloxane, octamethylcyclotetrasiloxane, decamethylcyclopentasiloxane and dodecamethylcyclohexasiloxane.

It is composed of an oxoalkane component (referred to as the total ring body).

Note. Molecular formula $[(CH_3)_2SiO]_{nn=3\sim6}$.

2 Normative references

GB 190

GB/T 601

GB/T 603

GB/T 3143

GB/T 6488

GB/T 6678

GB/T 6680

GB/T 6682

GB/T 8170

GB/T 9722

GB/T 14827

3 Terms and Definitions

There are no terms or definitions that require definition in this document.

4 Technical Requirements

The quality of the dimethylsiloxane mixed ring body should meet the technical requirements shown in Table 1.