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

GB/T 13550-2015

Replacing GB/T 13550-1992

Molecular sieve 5A and its determination

5A分子筛及其测定方法

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Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 13550-1992 "5A molecular sieve and test methods", compared with the GB/T 13550-1992, Technical Changes are as follows:

- Improving some of the key technical requirements;
- Details of the operation of the test made corresponding improvements;
- Modified spherical 5A molecular sieve product specifications;
- Increase the technical requirements of 5A molecular sieve powder. The standard proposed by China Petroleum and Chemical Industry Association. This standard by the National Standardization Technical Committee and soil conditioners Fertilizers (SAC/TC105) centralized. This standard was drafted. Shanghai Chemical Industry Research Institute, Ltd. Shenzhen Power Supply Bureau, Shanghai Green New Materials Co., Ltd Strong. The main drafters of this standard. Zhu Lin, Wang Pengfei, red Hu, Zhou Yongxian, including Qi days, Tang Qi, Gu Yan, Zhu Yi. This standard previously issued as follows:
 - GB/T 13550-1992. 5A molecular sieve and determination

1 Scope

GB/T 13550-2015 is the Chinese national standard on molecular sieve 5a and its determination, in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2015 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 July 2016. Classification: ICS 71.100.99, CCS G85. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the technical requirements of 5A molecular sieve, test methods, inspection rules, packaging, labeling, storage and transportation. This standard applies to the binder containing particles of molecular sieve 5A and 5A molecular sieve powder, the product is mainly used for chemical, petroleum, natural gas and Other industrial gas drying and purification.

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.

GB/T 191-2008 Packaging - Pictorial signs

GB/T 603 chemical reagent in test methods - Preparations with

GB/T 6286 Determination of bulk density of molecular sieve

GB/T 6287 Determination of Water adsorption molecular sieve

GB/T 6288 Determination of particle size granular molecular sieve

GB/T 6678-2003 General Principles for Sampling Chemical Products

GB/T 6679-2003 General rules for sampling solid chemical products Laboratory use specifications and test methods GB/T 6682 Analysis

GB/T 8170-2008 revised value represents about rules and limit values \u200b\u200band judgment

GB/T 10504-2008 3A molecular sieve

GB/T 14563-2008 Test methods and kaolin

HG/T 2690-2012 13X molecular sieves

HG/T 2783 sieve crush strength test method

3 Terms and Definitions

The following terms and definitions apply to this document. 3.1 5A molecular sieve
molecularsieve5A A type zeolite crystal structure and pore size of about 5Å1) calcium sodium zeolite. 1) 1Å = 0.1nm. Typical chemical composition. $\frac{3}{4}\text{CaO} \cdot \frac{1}{4}\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot 9/2\text{H}_2\text{O}$. Al ratio. SiO