

ICS 83.080.01

CCS G32



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

GB/T 11992-2008

Replacing GB 11992-1989

**Determination of exchange capacity of strong basic anion
exchange resins in chloride form**

氯型强碱性阴离子交换树脂交换容量测定方法

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Standardization Administration of China**

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Foreword

This standard replaces GB/T 11992-1989 "chlorine-type strongly basic anion exchange resin exchange capacity mensuration method." Compared with GB/T 11992-1989 standard version of this standard the following major changes occurred.

--- Given two kinds of chlorine type strongly basic anion exchange resins Determination of exchange capacity. The standard proposed by China Petroleum and Chemical Industry Association. This standard by the National Standardization Technical Committee plastic universal methods and products Club (SAC/TC15/SC4) centralized. This standard is mainly drafted by: Xi'an Thermal Power Research Institute Co., Ltd., Jiangsu Su Qing water treatment engineering company, Zibo Dongda Chemical Stocks Parts Limited, winning glory Zhejiang Industrial Co., Ltd., the national quality inspection center of a synthetic resin. The main drafters of this standard. Wang Guang Zhu, Qian Ping, Cai Xiaohua, Di Jinghua, Shen Jianhua, Cuihuan Fang, Wang Jiandong. This standard replaces the standards previously issued as follows:

--- GB/T 11992-1989. Chlorine type strongly basic anion exchange resin Determination of exchange capacity

1 Scope

GB/T 11992-2008 is the Chinese national standard on determination of exchange capacity of strong basic anion exchange resins in chloride form, in the field of rubber and plastic industries. 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 4 August 2008 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 April 2009. Classification: ICS 83.080.01, CCS G32. 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 chloride form strongly basic anion exchange resin in the number of all active groups cents and can be exchanged with the neutral salt molar reaction Active groups determination mmol numbers. This standard applies to the determination of chlorine type strongly basic anion exchange resin exchange capacity.

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. Preparation of

GB/T 601 chemical reagent standard titration solution

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

GB/T 5475 sampling ion exchange resin Resin pretreatment method

GB/T 5476 ion exchange Resin Determination for water

GB/T 5757 ion exchange Determination of exchange capacity of the resin

GB/T 5760 OH anion exchange Laboratory use specifications and test methods GB/T 6682 Analysis

3 A method

3.1 Summary of Method The sample was converted to chloride form with aqueous ammonia chloride ion non-neutral salt decomposition group on. Sodium chloride solution was returned while being less outflow The amount of the neutral salt decomposition chloride groups on. Sodium chloride solution and then eluted neutral salt decomposition group on this millimoles of chloride ions Number of neutral salt decomposition capacity. MM number of moles on it and eluted all non-neutral salt decomposition group of chloride ions and for the whole exchange capacity.

3.2 Instrument

3.2.1 Glass-exchange column. see GB/T 5760.

3.2.2 separatory funnel. see GB/T 5760.

3.2.3 glass centrifugation tube. see GB/T 5757.

3.2.4 Electric centrifugation machine. see GB/T 5757.

- 3.2.5 Stopwatch. indexing 0.02s.
- 3.2.6 electric heated water bath. temperature fluctuation ± 1 °C.
- 3.2.7 weighing bottle. 40mm x 20mm.
- 3.2.8 stoppered Erlenmeyer flask. 250mL.
- 3.2.9 Buret. Acid burette 25mL; brown burette 25mL.
- 3.2.10 pipette. 100mL.
- 3.2.11 flask. 1000mL.