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CCS G32



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

GB/T 16580-2013

Replacing GB/T 16580-1996

**D201 macroporous strongly basic styrene type anion exchange
resins**

D201大孔强碱性苯乙烯系阴离子交换树脂

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Quarantine of the People's Republic 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 16580-1996 "D201 macroporous strongly basic styrene anion exchange resin", and GB/T 16580- Compared to 1996, the main technical changes are as follows:

- "Neutral salt exchange capacity" with "strong group exchange capacity", the index changed " $\geq 3.70 \text{ mmol/g}$ ".
- Cancel all kinds of products, "superior products", "first-class products" and "quality products" classification.
- Abolition of the "quality of the whole exchange capacity" project and the corresponding index.
- Increased D201TR classification and corresponding indicators, the "limit particle size" indicators "($> 0.900 \text{ mm}$) $\leq 1\%$ ", "range Reap Degree "indicators" ($0.400 \text{ mm} \sim 0.900 \text{ mm}$) $\geq 95\%$ ", " limit particle size "indicators" ($< 0.315 \text{ mm}$) $\leq 1\%$ ".
- "Neutral salt exchange capacity" with "strong group exchange capacity", the index changed " $\geq 3.70 \text{ mmol/g}$ ".
- "Total exchange capacity" with "volume exchange capacity", the index changed D201SC " $\geq 1.1 \text{ mmol/mL}$ ", other " $\geq 1.2 \text{ mmol/mL}$ ".
- "Moisture" indicator to "50.0% to 60.0%."
- D201 "effective particle size" indicator to " $\geq 0.40 \text{ mm}$ ".
- D201 of "uniformity coefficient" indicator to " ≤ 1.6 ".
- D201SC of "a minimum size" indicator to "($< 0.630 \text{ mm}$) $\leq 1\%$ ".
- "Size range" indicator D201MB changed "($0.400 \text{ mm} \sim 0.900 \text{ mm}$) $\geq 95\%$ ".
- D201MB increase the "size limit" indicators "($< 0.315 \text{ mm}$) $\leq 1\%$ ", "effective size" indicators " $0.50 \text{ mm} \sim 0.80 \text{ mm}$ "and" uniformity coefficient "requirements" ≤ 1.4 ".

--- "Infiltration ball mill rate" indicator to " $\geq 90\%$ ". 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: Su Qing Water Treatment Engineering Group Corporation, Xi'an Thermal Power Research Institute Co., Ltd., Ningbo win glory resin has Limited, East Zibo Chemical Co., Ltd., the National Quality Supervision and Inspection Center of synthetic resin. The main drafters of this standard. Qian Ping, Cuihuan Fang, Di Jinghua, Zhang Peng Hua, Shen Jianhua, Liu Lirong. This standard replaces the standards previously issued as follows:

1 Scope

GB/T 16580-2013 is the Chinese national standard on d201 macroporous strongly basic styrene type anion exchange resins, 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 6 September 2013 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 31 January 2014. Classification: ICS 83.080.10, 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 D201 macroporous strongly basic styrene anion exchange resin product classifications, requirements, inspection rules and signs, including Loading, transportation and storage. This standard applies to quaternary amine as the main active group of D201 macroporous strongly basic styrene anion exchange resin. The main product To be used for the preparation of pure water, hydrometallurgy and so on.

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 1631 ion exchange resin naming system and basis for specifications

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 the resin particle size, effective size and uniformity coefficient of

GB/T 5758 ion exchange Determination of true density

GB/T 8330 wet ion exchange resin Resins in wet density determination method GB/T 8331 ion exchange

GB/T 11992-chloro-type strongly basic anion exchange resin exchange capacity determination

GB/T 12598 ion exchange resin infiltration ball mill rate, measured after grinding ball rate

3 Product Categories

Model D201 macroporous strongly basic styrene anion exchange resin according to GB/T 1631 preparation, MB represents Mixed bed; FC table Shows dedicated floating bed; SC represents bunk beds dedicated; TR represents three-bed special.

4 Requirements

4.1 Appearance Milky white or light yellow opaque spherical particles.

4.2 Technical Requirements Shall comply with the technical requirements specified in Table 1.