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CHEMICAL INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

HG/T 2624-1994

Microporous Styrene Type Weak Basic Anion Exchange

Resin D301-FC

D301-FC 大孔弱碱性苯乙烯系阴离子交换树脂

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Microporous Styrene Type Weak Basic Anion Exchange Resin D301-FC

1 Theme Contents and Applicable Scope

This Standard specifies the technical requirements, test methods, inspection rules, marking, packaging, transportation, and storage requirements for microporous styrene type weak basic anion exchange resin D301-FC.

This Standard applies to microporous styrene type weak basic anion exchange resin D301-FC with particle size of 0.45~1.25 mm and containing tertiary amino groups as the primary active groups.

2 Normative References

GB/T 1631 Classification, designation and types of ion exchange resin

GB/T 5475 Methods for sampling ion exchange resins

GB/T 5476 Methods for pretreating ion exchange resins

GB/T 5758 Determination for particle size distribution of ion exchange resins

GB/T 5759 Determination for water retention capacity of ion exchange resins in hydroxylic form

GB/T 5760 Determination for exchange capacity of anion exchange resins

GB/T 8330 Determination of specific gravity of ion exchange resins in wet state

GB/T 8331 Determination of bulk density of ion exchange resins in wet state

GB/T 11991 Determination of reversible swelling of exchange resins

GB/T 12598 Ion exchange resins - Determination for strength - Osmotic-attribution method

3 Product Model and Major Usage

The model of microporous styrene type weak basic anion exchange resin D301-FC is named

P_1 – particle size of resin with specimen particle size of 0.45~1.25mm, in %;

V_0 – volume of the specimen, in mL;

V_1 – volume of resin with specimen particle size less than 0.45mm, in mL;

V_2 – volume of resin with specimen particle size more than 1.25mm, in mL;

P_2 – particle size of resin with specimen particle size less than 0.45mm, in %.

5.8 Determination of effective particle size and uniformity coefficient

The determination shall be conducted using the method specified in GB/T 5758. During the sieving process, the screen shall be backwashed with water 3~5 times.

5.9 Determination of osmotic-attrition ball rate

The determination shall be conducted using the method specified in GB/T 12598. The specimen shall take the original sample.

6 Inspection Rules

6.1 Each batch of product shall be considered a batch.

6.2 Sampling shall be conducted using the method specified in GB/T 5475.

6.3 Each batch of products must be inspected by the manufacturer's quality inspection department. The manufacturer shall ensure that all products leaving the factory meet the technical requirements specified in this Standard. An inspection report shall be provided for each batch of products.

6.4 Appearance in 4.1 and water content, mass full exchange capacity, volume full exchange capacity, wet apparent density, wet true density, particle size, and osmotic-attrition ball rate in Table 4.3 of this Standard are exit-factory inspection items. The effective particle size and uniformity coefficient in Table 4.3 are random inspection items and must be inspected at least once a month. Type inspection shall be conducted in accordance with the provisions of 6.6.1 in GB 1.3.

6.5 If the user requires inspection of the received products, it shall be conducted in accordance with the provisions of this Standard. Re-inspection shall be requested from the manufacturer within three months of receipt.

6.6 If the inspection results show that a technical requirement does not comply with the provisions of this Standard, re-inspection shall be conducted by sampling from twice the number of packages in the batch, and the grade shall be determined based on the re-inspection

results.

6.7 If any dispute arises between the supplier and the purchaser regarding product quality, the dispute shall be resolved through mutual negotiation or arbitration by the authorized quality inspection department.

7 Marking, Packaging, Transportation, and Storage

7.1 Marking

Each package must be clearly and securely marked with the product name, model, net weight, manufacturer's name, and this Standard number.

7.2 Packaging

The products must be packaged in a container lined with a transparent plastic bag or woven bag. Each package must be accompanied by a certificate of conformity. The certificate must indicate the grade, batch number, and production date.

7.3 Transportation

During transportation, this product must be maintained at 5~40°C. Care must be taken to prevent the resin from losing water.

This product is not a hazardous material.

7.4 Storage

This product has a shelf life of two years under the temperature conditions specified in 7.3. After the shelf life has expired, reinspection may be performed in accordance with the provisions of this Standard. If the reinspection results still meet the requirements of this Standard, it may continue to be used.

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