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GB 209-2006

Replacing GB 309-1993

Sodium hydroxide for industrial use

工业用氢氧化钠

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Foreword

8.1, 8.3, 8.4 and Chapter 9 of this Standard are mandatory; the rest are recommended.

This Standard replaces GB 209-1993 "Sodium hydroxide for industrial use."

Compared with GB 209-1993, main changes of this Standard are as follows:

- Adjust the scope (Chapter 1 of 1993-edition, Chapter 1 of this edition);
- Add "Symbol" (see Chapter 3);
- Increase the sodium model specifications (3.2, 3.3 of 1993-edition; 4.2, 4.3 of this edition);
- Adjust the test items (4.2, 4.3 of 1993-edition; 3.2, 3.3 of this edition);
- Increase and adjust some indicators; and remove the mercury process indicators (3.2, 3.3 of 1993-edition; 4.2, 4.3 of this edition);
- Add batch requirements (see 5.1);
- Remove the Ca, Mg content and total mercury content test method (4.6, 4.7 of 1993-edition);
- Add the provisions of type inspection period and type inspection that shall be done under special circumstances (see 7.3);
- Do not require the sample retention period (5.7 of 1993-edition);
- Increase the solid sodium hydroxide's sampling bags, marking, packaging, transportation and storage requirements (see 5.3, 8.1, 8.2.2, 8.3, 8.4).

Please note that some of the content of this Standard may involve patents. The issuing organization of this Standard does not undertake the responsibility to identify these patents.

This Standard was proposed by China Petroleum and Chemical Industry Association.

This Standard shall be under the jurisdiction of National Standardization Technical Committee - Chlor-alkali Chemical Association (SAC/TC63/SC6).

National Standardization Technical Committee - Chlor-alkali Chemical Association (SAC/TC63/SC) is entrusted to interpret this Standard.

Drafting organizations of this Standard: Jinxi Chemical Industry Research Institute, Gol Sunite alkali Industry Co., Ltd., Tianjin Dagu Chemical Co., Ltd., Qingdao goods

Chemical Group Co., Ltd., China Qilu chlor-alkali plant, and Zigong Honghe Chemical Corporation.

Main drafters of this Standard: Chen Peiyun, Li Furong, Ma Wenyuan, Chen Shaotong, Duan Wangshan, Zhai Huaiji, and Jin Lan.

This Standard was first-time released in 1963, first-revised in 1984, and second-revised in 1993.

Sodium hydroxide for industrial use

1 Scope

This Standard specifies the industrial use sodium hydroxide's requirements, sampling, test methods, inspection rules, marks, packaging, transportation, storage, and safety.

This Standard applies to sodium hydroxide for industrial use.

2 Normative references

The following documents contain provisions which, through reference in this Standard, become provisions of this Standard. For dated references, their subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB 190 Labels for packages of dangerous goods

GB/T 191 Packaging - Pictorial marking for handling of goods (GB/T 191-2000, eqv ISO 780:1997)

GB/T 1250 Rules for expression and judgement of limiting values

GB/T 4348.1 Sodium hydroxide for industrial use - Determination of sodium hydroxide and sodium carbonate content

GB/T 4348.2 Sodium hydroxide for industrial use - Determination of sodium chloride content. Mercurimetric method (GB/T 4348.2-2002, eqv ISO 981:1973)

GB/T 4348.3 Sodium hydroxide for industrial use - Determination of iron content - 1,10-Phenanthroline photometric method (GB/T 4348.3-2002, eqv ISO 983:1974)

GB/T 6678 General principles for sampling chemical products (GB/T 6678-1986, neq ASTM E 300-1983)

GB/T 6679 General rules for sampling solid chemical products (GB/T 6679-1986, neq ISO/DIS 8213:1986)

GB/T 6680 General rules for sampling liquid chemical products (GB/T 6680-1986,

7.3 All of the inspection items specified in this Standard are type inspection items. In which, for IS-IT, IL-IT type sodium hydroxide and sodium chloride, they are the exit-factory inspection items of type inspection items; the rest are sampling items of type inspection items. For IS-DT, IS-CT, IL-DT and IL-CT type sodium hydroxide, sodium carbonate, and sodium chloride, they are the exit-factory inspection items of type inspection items; the rest are sampling items of type inspection items. If there are following conditions: the resumption from production shutdown, the production process has changed significantly (such as materials, process conditions, etc.), contract requirements, etc., it shall conduct type inspection. Under normal production conditions, type inspection shall be conducted at least once a month.

7.4 Before sodium hydroxide products are factory-exited, it shall be inspected by the manufacturing enterprise's quality supervision & inspection department, and attached with quality certificate. The content includes: manufacturer name, product name, model specifications, quality indicators, grade, batch number or production date, the implemented standards. Those sodium hydroxide products that do not meet the requirements of this Standard must not declare that it complies with this Standard.

7.5 User has the right to conduct inspection, in accordance with this Standard, to the received sodium hydroxide products, so as to verify if the quality meets the requirements of this Standard.

7.6 If there is an indicator in inspection results not meeting the requirements of this Standard, then it shall re-take double representative samples from the packaging unit for re-inspection. If there still has an indicator in the re-inspection results not meeting the requirements of this Standard, then the products are deemed as unqualified.

8 Marks, packaging, transportation and storage

8.1 Marks

Marks shall be clearly and firmly indicated on packaging of solid sodium hydroxide products, including: manufacturing enterprise's name, address, product name, trademark, implemented standards, model specifications, batch number or production date, net mass, production license number, and "corrosive" mark specified by GB 190. Solid sodium hydroxide products shall have mark "avoid rain" specified by GB/T 191.

8.2 Packaging

8.2.1 For solid sodium hydroxide products that are packed in iron-barrels, it shall be in accordance with GB/T 15915. Net mass of each barrel is (200 ± 2) kg.

8.2.2 For flake-shaped, granular-shaped, block-shaped and other solid sodium hydroxide products that are packed in bags, the inner bag should use polyethylene or polypropylene film bags; the outer bag should use polyethylene or polypropylene bags

(or Fumo bag) or brown paper bags. Net mass of each bag is (25.0 ± 0.25) kg. It may also adopt other forms of packaging according to the relevant provisions. Bags and sealing shall ensure that the products are not contaminated, no leakage, no damage in normal transport and storage.

8.2.3 For the tank or tank-truck that is specially used to transport the liquid sodium hydroxide products, the containers must not contaminate the products.

8.3 Transport

During transport, it shall prevent impact. For sodium hydroxide bagged products, it shall avoid damage, moisture, and pollution. It must not be mixed and transported with acidic materials.

8.4 Storage

Solid (including flake-shaped, granular-shaped, block-shaped, etc.) sodium hydroxide products shall be stored in dry, clean warehouse. Liquid sodium hydroxide product shall be stored in tank. Prevent collisions and contact with acidic materials.

9 Safety

Sodium hydroxide is highly corrosive product. The user has the responsibility to take appropriate safety and health measures; the contact person shall be equipped with labour protection equipment such as protective goggles and rubber gloves.

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