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Replacing QB/T 1224-2007

Liquid Detergent for Fabric

衣料用液体洗涤剂

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Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009 *Directives for Standardization – Part 1: Structure and Drafting of Standards*.

This Standard replaced QB/T 1224-2007 *Liquid Detergent for Fabric*.

Compared with QB/T 1224-2007, this Standard has the major technical changes as follows:

- Revise the basis for the raw material requirements;
- Revise the total content index requirements for the active substances in the ordinary laundry detergent;
- Revise the pH determination concentration of the laundry detergent;
- Revise the solution concentration, reference compound, reference concentration and detergency evaluation requirements when determining the detergency of laundry detergent;
- Revise the name of pre-washed stain agent of the fabric;
- Revise the solution concentration, reference compound, reference concentration, detergency evaluation requirements when determining the detergency of the pre-washed stain agent of the fabric;
- Revise the basis for the inspection rules, marking and package requirements;
- Revise the quality guarantee period of the product;
- Add the type of silk & wool detergent and the corresponding index requirements;
- Add the evaluation requirements for the detergency of the silk & wool detergent;
- Add the index requirements for the laundry detergent, silk & wool detergent, collar & cuff pre-detergent against the phosphorus pentoxide;
- Cancel the grade requirements for the laundry detergent, collar & cuff pre-detergent.

This Standard was proposed by China Light Industry Council.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Surface Active Agent and Detergent (SAC/TC 272).

Drafting organizations of this Standard: Xi'an Kaimi Co., Ltd., Guangzhou Blue Moon

Liquid Detergent for Fabric

1 Scope

This Standard specifies the terms and definitions, product classification and mark, requirements, test methods, inspection rules, marking, package, transportation, storage and quality guarantee period of the liquid detergent for fabric.

This Standard is applicable to the liquid detergent products (not applicable to the non-washing type products) made from various surface active agents and assistant; used for cleaning various fabrics.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 6368 Surface Active Agents – Determination of pH of Aqueous Solution – Potentiometric Method

GB/T 13173-2008 Surface Active Agents – Detergents – Testing Methods

GB/T 13174-2008 Determination of Detergency and Cycle of Washing Property for Laundry Detergents

GB/T 26396 Technical Specification for Safety of Soaps and Detergents

QB/T 2951 Inspecting Rules for Detergent Products

QB/T 2952 Requirements for Detergent Marks and Packaging

JJF 1070 Rules of Metrological Testing for Net Quantity of Products in Prepackages with Fixed Content

No.75 [2005] Command from General Administration of Quality Supervision, Inspection and Quarantine of the PRC *Measures for the Supervision and Management of Quantitative Packaging Commodities*.

restoring to the room temperature; the other piece of specimen shall be stored in the (-5 ± 2) °C refrigerator for 24h; take out and observe after restoring to the room temperature.

6.4 Total active substance

Generally, it shall be determined according to the Method-A specified in Clause 7 of GB/T 13173-2008.

When the product formula contains the surface active agent components insoluble to the ethanol, or when the test results of total active substance content specified in the customer ordering contract exclude the water co-solvent, and asked to determine through the chloroform extraction method, then it shall be determined by Method-B specified in Clause 7 of GB/T 13173-2008.

6.5 pH

It shall be performed as per the provisions of GB/T 6368. At the test temperature of 25°C, use the boiling and cooling distilled water to prepare the specimen solution with mass concentration of 1%, then mix evenly with the structured laundry detergent specimen solution with mass concentration of 0.1%, then determine it.

6.6 Total Phosphorus pentoxide

Inspect as per the provisions of Clause 6 in GB/T 13173-2008.

6.7 Detergency

6.7.1 Standard laundry detergent

Prepare as per the relevant provisions of No.1 amendment of GB/T 13174-2008.

6.7.2 Determination of detergency

- a) Laundry detergent, silk & wool detergent: perform as per the provisions of GB/T 13174.
- b) Collar & cuff pre-detergent

Pretreatment of dirty-cloth test piece: take 3 blocks of round dirty-cloth test pieces of JB-01, JB-02, JB-03 with diameter of $\Phi 4$ cm; respectively fold into one culture dish (take one type of dirty-cloth as one group). Weigh 2.0g of specimen into the beaker; add 2mL of 250mg/kg hard water to dilute; use the pipette to average drop the evenly-mixed specimen onto each dirty-cloth in sequence of JB-01, JB-02, JB-03; use tweezers to flip gently; so that it can be totally wetted; the dropping time shall be controlled within 1min; stand the soaked dirty-cloth test piece for 5min. Take 250mL of the heated 30°C 250mg/kg hard water, transfer the specimen remained in the pipette, beaker, culture dish and the

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