

ICS 71.100.40

QB

**LIGHT INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

QB/T 4535-2013

**Fabric softening agent
(English Translation)**

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1 Scope

This standard specifies the requirements, test methods, inspection rules, marking, packaging, transportation, storage, shelf life of fabric softening agents (also known as fabric conditioners).

This standard applies to washing and care products, which are used in conjunction with detergents, in the process of fabric washing and care, to make the fabric soft and fluffy AND eliminate static electricity.

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) is applicable to this standard.

GB/T 6368 Surface active agents - Determination of pH of aqueous solution

- Potentiometric method (GB/T 6368-2008, ISO 4316:1977, IDT)

GB/T 6682 Water for analytical laboratory use - Specification and test methods (GB/T 6682-2008, ISO 3696:1987, MOD)

GB/T 13173-2008 Surface active agents - Detergents - Testing methods

GB/T 16801 Determination of antistatic performance for fabric conditioners

GB/T 26369 Hygienic standard for quaternary ammonium disinfectant

QB/T 2951 Inspecting rules for detergent products

QB/T 2952 Requirements for detergent marks and packaging

QB/T 4309 Rewettability evaluation of fabrics softener

JJF 1070 Rules of metrological testing for net quantity of products in prepackages with fixed content

Order of the State Administration of Quality Supervision, Inspection and

Quarantine [2005] No.75 "Measures for the Supervision and Administration of Quantitative Packaging Commodities"

4 Test method

Unless otherwise specified, only chemical reagents, which are confirmed to be analytically pure AND grade 3 water, which is specified in GB/T 6682, are used in the analysis.

4.1 Appearance

Measure not less than 200 mL of the specimen. Place it in a dry, clean, colorless wide-mouth glass bottle with a stopper. Make observation, under non-direct light conditions.

4.2 Smell

Take an appropriate amount of specimen for identification, by smelling it.

4.3 Stability

Take 3 sets of specimens of not less than 100mL. Place them in 250mL colorless wide-mouth glass bottles with stoppers. One set is used as a control sample. One set is placed in an incubator at $(40 \pm 2)^{\circ}\text{C}$ for 24h; make observation, after returning to room temperature. The other set is placed in a refrigerator at $(-5 \pm 2)^{\circ}\text{C}$ for 24h; take it out; make observation after returning to room temperature. Compare the two sets of specimens, which have returned to room temperature, with the control specimen.

4.4 Dispersibility

Measure one set of specimen of not less than 100mL. Place it in a 250mL colorless wide-mouth glass bottle with a stopper. Place it in a refrigerator at $(-5 \pm 2)^{\circ}\text{C}$ for 24h. Take it out and return to room temperature, for later use.

Weigh 0.5g of specimen (0.25g for concentrated sample), which had been processed. Add 200mL of hard water (250mg/L) into a 300mL beaker. Place it on the agitator. Use a standard four-blade spiral stirring paddle (as shown in

Figure 1). Make observation, after stirring at a speed of 400r/min, for 2min.

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