



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

GB/T 4288-2018

Household and similar electrical washing machine

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Foreword

This Standard is drafted in accordance with the rules given in the GB/T 1.12009.

This Standard replaces GB/T 4288-2008 "Household and similar electrical washing machine".

The major differences between this Standard and GB/T 4288-2008 are as follows.

In Clause 2 "Normative references", SUPPLEMENT the relevant references;

In Clause 3 "Terms and definitions", "electric washing machine" is classified and described, and incorporated into the relevant contents of "impeller washing machine", "drum washing machine", "agitator washing machine", "double-drive washing machine", "washing machine", "semi-automatic washing machine" and "automatic washing machine", ADD the definitions of "mini washing machine" and "multi-drum/barrel washing machine"; for test items such as "method for measuring washing container effective capacity of washing machines" "test method for rinse performance" "test method for abrasion performance" "method for measuring off/standby power of washing machines" and "method for calculating annual energy consumption of washing machines", ADD the contents of "washing container capacity" "test load mass" "test detergent mass" "rate of rinse" "rate of abrasion" "off mode" "standby mode" and "annual energy consumption"; ADD the definition of "standard washing textile", IMPROVE the definitions of "rated capacity" and "rated consumption of water";

- INCLUDE the specific contents of the original Clause 4 "Product classification" IN "Annex B (normative) Product classification and model designation";

In Clause 5 "Technical requirements", the original "5.1 Environmental conditions for use" is modified to "5.1 General requirements" and reformulated, ADD the contents of "5.12

Off/Standby power"; due to changes in test methods, MODIFY the contents of "5.6 Rinsing performance", "5.7 Abrasion performance" and "5.15 Vibration performance", and IMPROVE the contents of "5.18 Allowable deviation of ostensive values"; ADD the relevant requirements for "rate of rinse", "rate of abrasion" and "spinning performance". The original "5.11 General structure" and "5.12 Materials" are changed to "5.19 Overall structure and routine inspection" and "5.20 Materials" respectively and reformulated;

In Clause 6 "Test methods", the use conditions of different "test water

Household and similar electrical washing machine

1 Scope

This Standard specifies the terms and definitions, product classification, technical requirements, test methods, inspection rules, marking, packaging, transportation and storage of household and similar electrical washing machines (hereinafter referred to as "washing machines").

This Standard applies to the washing machines (including extractors) of which the single-phase rated voltage is not more than 250 V, used by nonprofessionals in the households, stores, schools, etc.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the versions with the dates indicated are applicable to this document. For undated references, only the latest versions (including any amendments) are applicable to this document.

GB/T 411 Printed and dyed cotton fabric

GB/T 1019 General requirements for the package of household and similar electrical appliances

GB/T 2423.17 Environmental testing for electric and electronic products -Part 2. Test method - Test Ka. Salt mist

GB/T 2828.1 Sampling procedures for inspection by attributes -Part 1. Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 2829 Sampling procedures and tables for periodic inspection by attributes (Apply to inspection of process stability)

GB/T 4214.4 Household and similar electrical appliances -Test code for determination of airborne acoustical noise -Particular requirements for washing machines and spin extractors

GB 4706.1 Household and similar electrical appliances -Safety -Part 1. General requirements

GB 4706.24 Household and similar electrical appliances -Safety -Particular requirements for washing machines

GB 4706.26 Household and similar electrical appliances -Safety -Particular requirements for spin extractors

GB/T 5296.2 Instructions for use of products of consumer interest - Part 2. Household and similar electrical appliances

GB/T 6682-2008 Water for analytical laboratory use - Specification and test methods

GB/T 22939.5 Package of household and similar electrical appliances Particular requirements for electric washing machine and dryer

GB/T 23119-2017 Household and similar electrical appliances - Performance -Hard water for testing

QB/T 4830-2015 Household mini electrical washing machine

3 Terms and definitions

For the purpose of this document, the following terms and definitions shall apply.

electric washing machine

Power-driven appliance relying on mechanical action for clothes washing. NOTE 1. According to the washing methods, electric washing machines are classified into.

-impeller washing machine. washing machine that washes the laundry by fully or partially immersing the laundry in washing water, and by means of continuous rotation or timed clockwise and counterclockwise rotation of the impeller.

- drum washing machine. washing machine that washes the laundry by placing the laundry in the drum, partially immersing in water, and by means of continuous rotation of the drum or timed clockwise and counterclockwise rotation.

-agitator washing machine. washing machine that washes the laundry by fully or partially immersing the laundry in washing water, and by means of reciprocating motion of the agitating blade.

- double-drive washing machine. washing machine that washes the laundry by fully or partially immersing the laundry in the washing water, and making the impeller or the

agitating blade and the inner container in the same system operate at a set constant speed

3.3.1 washing container effective capacity

Washing container capacity measured according to the method in Annex A.

3.3.2 washing container rated capacity

Washing container capacity declared by the manufacturer.

3.4 standard washing textile

Loaded textile for carrying out the relevant tests of this Standard.

NOTE. There are two kinds of materials, which are cotton and polyester. The cotton standard washing textiles are bed sheets, shirts, napkins and handkerchiefs; the polyester standard washing textiles are square towels.

3.5 rated capacity

The maximum mass of the dry standard washing textile that can be processed by the washing machine/extractor at one time specified by the manufacturer.

3.5.1 rated washing capacity

The maximum mass of the dry standard washing textile that can be washed at one time specified by the manufacturer.

3.5.2 rated spinning capacity

The maximum mass of the dry standard washing textile that can be spun at one time specified by the manufacturer.

NOTE. It is unnecessary to indicate the rated spinning capacity in the case of no spinning function.

3.6 rated consumption of water 3.10 washing water level

Position of still water, when injecting appropriate amount of water into the washing container, for washing certain mass of standard washing textile, in the state that the washing container is unloaded.

3.10.1 highest water level

Corresponding water level, specified by the manufacturer, when washing rated capacity of cotton standard washing textile.