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Sanitary wares - Test method of the marking

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Sanitary wares - Test method of the marking

1 Scope

This Standard specifies marking requirements, equipment and materials, durability marking test method, non-durability marking test method, test result and test report of test method of the marking of sanitary wares.

This Standard is applicable to the test of the marking of sanitary wares.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 6952, *Sanitary wares*

3 Terms and definitions

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

3.1 durability marking

Durability marks on sanitary ceramic products, such as trademark marks.

3.2 non-durability marking

Non-durable marks on sanitary ceramic products, such as water level lines, water efficiency labels and so on.

4 Requirements

4.1 Marking

It shall meet the requirements of GB/T 6952.

4.2 Durability marking

4.2.1 The trademark shall be printed in a visible position after the product is

installed.

NOTE: Smart toilet logo can be printed on the lid.

4.2.2 Durability marking shall have performances of moisture and heat resistance, hot water resistance, scrub resistance, abrasion resistance, corrosion resistance and so on.

5 Equipment and materials

5.1 Steel ruler: division value is 1mm, range is 1000mm.

5.2 Humidity chamber: temperature range is 20°C~100°C, humidity range is 20%~98%RH.

5.3 Water heater: it is advisable to heat the water to 60°C with a water outlet.

5.4 Weak cleaning agent: commercial cleaner with pH of 6.5~7.5.

5.5 Strong cleaning agent: commercial cleaner with pH of 9~10.

5.6 Concentrated hydrochloric acid: density is 1.19g/mL.

5.7 Potassium hydroxide solution: 200g/L.

5.8 Acetone: concentration is 99%.

6 Test methods of durability marking

6.1 Humidity and heat resistance test (Procedure A)

Place the sample in an environment with temperature of $(40\pm 2)^{\circ}\text{C}$ and relative humidity of $(98\pm 2)\%$ for 48h. At a distance of about 300mm from the sample, dry with air whose pressure does not exceed 200kPa. Visually observe the changes in the marking.

6.2 Hot water resistance test (Procedure B)

Use flowing water at $(55\pm 5)^{\circ}\text{C}$ for 5min. Use a wet cloth to wipe clean. At a distance of about 300mm from the sample, dry with air whose pressure does not exceed 200kPa. Visually observe the changes in the marking.

6.3 Scrub resistance test (Procedure C)

Use a normal non-abrasive sponge or cloth to scrub the marking in a weak cleaning agent for 15s. Scrub 1 time per second. Use running water to rinse

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