

ICS 71.100.40



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

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**Code for design of fire communication and command system
(English Translation)**

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1 Scope

This standard specifies the terms and definitions, requirements, test methods, inspection rules, markings of integrated dental floss and handles.

This standard applies to integrated dental floss and handle products, that can be used as an auxiliary cleaning tool for teeth.

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 19342 Toothbrushes

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

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

Order No.75 [2005] of the General Administration of Quality Supervision,

Inspection and Quarantine of the People's Republic of China "Measures for the

Supervision and Administration of Quantitative Packaged Commodities"

"Hygienic Standards for Cosmetics" of the Ministry of Health of the People's

Republic of China

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Integrated dental floss and handles

An oral cleaning tool, which is consisted of a retainer and a thread made of synthetic fibers or other materials, used to clean attachments adjacent to teeth.

requirements of the Order No.75 [2005] of the General Administration of Quality

Supervision, Inspection and Quarantine of the People's Republic of China "Measures for the Supervision and Administration of Quantitative Packaged Commodities".

4.5 Packaging appearance

The packaging shall be smooth and straight; the pattern shall be printed clearly; the color registration shall be accurate; the packaging shall be flat and free of cracks and glue.

5 Test methods

The water used in this standard, unless otherwise specified, is water that meets the requirements of GB/T 6682.

5.1.1 Specimen preparation

Under sterile conditions, take 5 integrated dental floss and handles. Place them in 50 mL of sterilized physiological saline (put in a few glass beads in advance). Shake them uniformly. Use them as test solutions, for later use.

5.1.2 Measurement procedure

Make measurement, in accordance with the relevant provisions of the "Hygienic Standards for Cosmetics" of the Ministry of Health of the People's Republic of China.

5.2 Toxic substance limits

Make measurement, according to the method specified in GB 19342.

5.3 Sensory indicators

5.3.1

Appearance

The integrated dental floss and handle can be visually inspected, at a distance of 300 mm

under natural light or 40 W light. Meanwhile it can be inspected by hand. For areas that are difficult to see, a magnifying glass or electron microscope shall be used for observation.

5.3.2

Decolorization test

Use cotton, which is fully soaked in 65% ethanol, to wipe the handle and dental floss back and forth 100 times. Visually observe whether there is color on the cotton.

5.4.1 Instrumentation

- a) Holder: It shall have an adjustment device, to provide appropriate clamping force when clamping the dental floss, to prevent the dental floss from slipping. The surface where the jaws of the holder are in contact with the specimen can have a liner, to minimize the slip or damage of the specimen in the clamping area;
- b) Hook: The tensile strength is not less than 100 N, which has a smooth surface and a diameter of (3.0 ± 0.5) mm;
- c) Lanyard: The tensile strength is not less than 100 N;
- d) Weight: The mass is 1 kg;
- e) Container: It is used for immersing specimen in water;
- f) Other test tools: The stopwatch, support device, etc. required for the test.

5.4.2 Specimen preparation

Take 10 integrated dental floss and handles. Immerse them in distilled or deionized water, which has a temperature of (37 ± 2) °C. The immersion time is 90 s ~ 100 s.

5.4.3 Test temperature

The test temperature is kept at (23 ± 5) °C.

5.4.4 Operation steps

- a) Connect hooks, lanyards, weights as weight devices, with supporting devices underneath;
- b) Take out 1 integrated dental floss and handle specimen by hand. Shake it twice quickly, to remove excess moisture on the surface of the specimen. Place the handle of the integrated dental floss and handle in the holder. Ensure that the dental floss is level. The horizontal distance between the front end of the holder and the center of the dental floss is (30 ± 1) mm;
- c) At 55 s ~ 60 s after the specimen is completely infiltrated, hang the weight device in the middle of the dental floss; adjust the support device, so that the weight device is fully

vertically extended AND the hook just touches the dental floss (see

Figure 1) d) Slowly remove the supporting device (the supporting device shall not be removed too quickly, to avoid a sudden increase in tension on the dental floss). Then start timekeeping. Keep the specimen under load for 10 s ~ 11 s;

e) According to the above conditions, repeatedly test the other 9 integrated dental floss and handle specimens, to observe whether the dental floss and handle are broken, whether the dental floss is pulled out.

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