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

QB/T 4107-2010

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**Manual shaver**  
**手动剃须刀**

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## Foreword

This Standard refers to and adopts QB/T 1104 *Double-sided Knife Rest for Shaving* and QB/T 1105 *Double-sided Blade for Shaving*.

Annex A of this Standard is normative.

This Standard was proposed by China National Light Industry Council.

This Standard shall be under the jurisdiction of National Technical Committee on Hardware Tools of Standardization Administration of China.

The responsible drafting organization of this Standard: Ningbo Kaili Knife Manufacturing Co., Ltd.

The chief drafting staffs of this Standard: Hu Shangang, Hu Xiamin, Long Huirong, Luo Huayou, and Yu Bin.

This Standard was issued for the first time.

## Manual shaver

### 1 Scope

This Standard specifies manual shaver's (Hereinafter referred as "Shaver") terms and definitions, product classification, requirements, test method, inspection rules and marks, packaging, transportation and storage.

This Standard applies to the single-edged shaver that is used to shave the beard and body hair.

### 2 Normative references

The articles contained in the following documents have become part of this document when they are quoted herein. For the dated documents so quoted, all the modifications (including all corrections) or revisions made thereafter shall be applicable to this document.

GB/T 2828.1-2003 Sampling procedures for inspection by attributea-Part1: Sampling schemes indexed by acceptance quality limit(AQL) for lot-by-lot inspection

GB/T 2829-2002 Sampling procedures and tables for periodic inspection by attributes (Apply to inspection of process stability)

GB 19342-2003 Tooth brush

QB/T 3815 Thickness testing method of the metal deposits for the light industrial products -Timekeeping of liquid flow method

QB/T 3817 Thickness testing method of the metal deposits and conversion coatings for the light industrial products — Metallographic microscopic method

QB/T 3833 Testing method of the oxidation treatment coatings of the aluminum and aluminum alloys for the light industrial products

### 3 Terms and definitions

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

#### 3.1

##### **Manual shaver**

Combined by the segment and handle, it is the single-edged shaver that is used to

#### **6.3.4 Sharpness of the blade cutting edge**

Use the cutting machine with a blade cutting edge whose indicating value is 0.1N to test. Cut the test paper as specified in Appendix A with the same cutting edge for five times. The cutting depth of the test paper is 0.8mm-0.9mm. Take five cutting force values - C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, C<sub>4</sub>, C<sub>5</sub> respectively.

#### **6.3.5 Corrosion resistance of stainless steel blade**

Use the sodium chloride brine solution whose concentration is 1% for salt fog test. Place the blade sample into the salt fog test chamber with a temperature of (30±2)°C. Keep spraying for 6h. And observe the rust and color change situations of the blade after taking it out.

#### **6.4 Rotation angle $\beta$ of the movable-type segment**

Measure with a Vernier universal protractor.

#### **6.5 Handle**

Test the handle metal part surface coating by the timing-flow method stipulated in QB/T 3815 or metallographic microscopic method stipulated in QB/T3817. Handle oxide layer shall be tested by the method stipulated in QB/T 3833.

#### **6.6 Physical properties**

##### **6.6.1 Compressive resistance of the handle**

**6.6.1.1** Test device: Pointer-type push-pull gauge (the range is not greater than 200N).

**6.6.1.2** Sample preparation: Take samples. Make a mark at 20mm from the top of the handle head. Keep at temperature of (20 ± 5)°C approximately constantly for 1h.

**6.6.1.3** Test conditions: Temperature of (20 ± 5)°C.

**6.6.1.4** Test procedures: Place the sample on the bracket horizontally, with the pressure head vertically acting on the marked axis of the sample. Choose one end of the pushing force. Start to exert the pulling force evenly, until the sample is broken or the sample is not broken while it is bent to the limit extent – read the reading pointed by the pointer (See Figure 4).

##### **6.6.2 Riveting tension of the segment**

**6.6.2** Test device: Pointer-type push-pull gauge (the range is not greater than 200N), handle fixture; and steel wire.

**6.6.2.2** Sample preparation: Measure the installed shaver from the top of segment to 35mm from the handle. Make a mark.

**8.1.2** The small package, medium package of the shaver shall include the following marks:

- a) Trademark;
- b) Product name and specifications;
- c) Approved standard number;
- d) Manufacturer's name, address, and contact details.

**8.1.3** Exterior of each packaging box shall include the following marks:

- a) Trademark;
- b) Product name and specifications;
- c) Marking of products;
- d) Executive standard code;
- e) Company name and address;
- f) Ex-factory's year and month;
- g) Quantity;
- h) Net weight, gross weight, volume (length × width × height);
- i) Marks of keeping dry, upward, and handle with care.

## **8.2 Label**

**8.2.1** Inspection certificate shall be included inside the middle packaging box of shaver.

**8.2.2** Certification shall include the following:

- a) Trademark;
- b) Inspector (signature or code);
- c) Manufacturing date;
- d) Name of manufacturer.

## **8.3 Packaging**

**8.3.1** Packaging materials for shavers shall be clear, with uniform color and pattern printed correctly, without chromatography, distortion, burrs and defects.

**8.3.2** Bubble cap and paperboard for blister packaging shall be bonded firmly.

**8.3.3** Packaging shall be with moisture-proof function. And it shall ensure no damage under normal transport and storage conditions.

#### **8.4 Transportation**

**8.4.1** When transport, it shall be handled with care, without throwing, rolling over or stomping.

**8.4.2** When transport, it shall keep dry, anti-squeeze and anti-rain.

**8.4.3** It must not be transported with corrosive items.

#### **8.5 Storage**

**8.5.1** Store room shall be in good ventilation. And the relative humidity shall be at most 80%.

**8.5.2** Product storage shall be kept above-200mm away from the wall. And it shall keep the distance of above-100mm from the ground. The product shall not be stored with corrosive articles simultaneously.

## Annex A

(Normative)

### Cutting test paper technical parameters

Cutting test paper technical parameters shall be in accordance with the provisions specified in Table A.1.

**Table A.1**

Items	Requirements
Test paper specifications	1mm×25mm×150mm
Test paper quantity	(380±20) g/m <sup>2</sup>
Absorbency of test paper	(110+10) mm/10min
Bursting strength of test paper	(420±10) kPa

———— **END** ————