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NATIONAL METROLOGICAL TECHNICAL SPECIFICATION
OF THE PEOPLE'S REPUBLIC OF CHINA

JJF 1070.1-2011

**Rules of metrological testing for net quantity of
soap products in prepackages with fixed content**

定量包装商品净含量计量检验规则

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

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This Specification was approved by General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China on January 21, 2011, and shall enter into force as of February 1, 2012.

Administration organization:

National Technical Committee of Metrology for Legal Metrological Management.

Main drafting organizations:

Shanghai Institute of Measurement and Testing Technology;

Beijing Branch of Procter & Gamble (Guangzhou) Co., Ltd.

Participating drafting organization:

Shanghai Center of Compulsory Verification on Measuring Instruments.

This Specification shall be entrusted to National Technical Committee of Metrology for Legal Metrological Management for interpretation.

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

After production and packaging of soap, changes in moisture and volatiles will cause a shortage of net quantity. Therefore, the rules of metrological testing for net quantity of soap products in prepackages with fixed content (hereinafter referred to as “these Rules”) are formulated to protect the interests of consumers and producers, in accordance with the requirements of AQSIQ Decree No. 75 *Administrative Measures for Metrological Supervision over Products in Prepackages with Fixed Content*.

These Rules are a supplement of JJF 1070-2005 *Rules of metrological testing for net quantity of products in prepackages with fixed content*.

1 Scope

These Rules specify the metrological requirements for net quantity as well as the requirements and procedures for sampling, testing, evaluation and other activities in the metrological testing process of the soap products in prepackages with fixed content (hereinafter referred to as “soap products”).

The soap products specified in these Rules refer to different types, different ingredients and different packaging of bar soap, such as toilet soap, laundry soap, etc. (excluding the industrial soap).

These Rules are applicable to the metrological supervision and inspection, arbitration and verification for net quantity of soap products. The producers and sellers of soap products may also refer to these Rules for testing.

These Rules are applicable to the soap products that cause a shortage of net quantity due to changes in moisture and volatiles, and that are manufactured within 180 days.

2 Normative references

The provisions in the following documents become the provisions of this Specification through reference in this Specification. For dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Specification. For undated references, the latest editions apply to this Specification.

JJF 1070-2005 *Rules of metrological testing for net quantity of products in*

products within 5 days of production

5.1 Determination of inspection lot

- a) The inspection lot of soap products shall be the products passing the manufacturer self-inspection. In the event of sampling in the production or packing site, the inspection lot shall be a certain amount of (generally 1 hour of production) same kind of soap products manufactured by the manufacturer under the same production conditions.
- b) In the event of sampling in the warehouses of the manufacturer, importer and wholesaler, the inspection lot shall be defined as all of the same kind of soap products existing at the site of the enterprise sampling site.

5.2 Retrieval of sampling scheme

RETRIEVE the sampling scheme, DETERMINE the sample size, and EVALUATE the indicators of the sample, based on the batch and in accordance with Table 4.

5.3 Sampling

The sample shall be extracted by using a random sampling method in the inspection lot. The selected sampling method shall ensure that each unit of product is equally likely to be taken as a sample. The random sampling method is given in Annex A of JJF 1070-2005. After sampling, FILL in the sampling list for metrological supervision and inspection of products in prepackages with fixed content (the format of the sampling list is given in Annex H of JJF 1070-2005).

5.4 Sample testing

5.4.1 Testing equipment

Qualified scale or balance, steel ruler or vernier caliper. The accuracy level and division value shall conform to the requirements of Subclause 5.2 in JJF 1070-2005.

5.4.2 Net quantity testing

5.4.2.1 Determination of gross weight: WEIGH the gross weight of the sample units one by one.

5.4.2.2 Determination of tare: DETERMINE the sample tare according to the provisions in Annex B of JJF 1070-2005.

5.4.2.3 Calculation of actual quantity: CALCULATE the actual quantity according to the following formula:

7 Original records and data processing

7.1 Original records

The original records of each testing shall contain sufficient information, and the items listed in the records shall be filled out accurately. Observations, data and calculations shall be recorded at work. The records shall include the signatures of the testing executive and the result verifier, and shall be kept in accordance with the prescribed time limit (the format of the original testing records within 5 days of production is given in Annex A, while the format after 6 days of production is given in Annex B).

7.2 Data processing

CALCULATE the actual quantity of a single piece, mean actual quantity of the samples and other relevant data according to the requirements specified in Chapter 4.

8 Result assessment and report

8.1 Assessment criteria

8.1.1 Assessment criteria for labels

Under one of the following circumstances, the labels for net quantity of soap products will be assessed as nonconforming.

- a) Fail to label the net quantity of a product on a prominent position of the package in a correct and clear way;
- b) Fail to use the legal unit of measurement in a correct way as required;
- c) The character height of the labeled net content is less than the specified requirement;
- d) In case of failing to label the net quantity and total number of single soap products, or the total net quantity of soap products, when there are multiple same kind of soap products in the same prepackaged soap product; and
- e) In case of failing to label the net quantity per piece and number of various kinds of soap products, or the total net quantity of various kinds of soap products, when there are multiple various kinds of soap products in the same prepackaged product.

8.1.2 Assessment criteria for net quantity

8.1.2.1 Assessment criteria for net quantity of soap products within 5 days of production

Annex A

Format of the original records of metrological testing for net quantity of (soap) products in prepackages with fixed content (within 5 days of production)

				Testing date:	Serial No.:					
Tested organization				Legal representative or principal			TEL			
Address				Postal code						
Product name			Soap type			Production date				
Manufacturer name				Batch						
				Sample size						
Testing basis				Labeled net quantity						
Name of measuring equipment	Specifications and model	Accuracy level	Range		Min. division value	Device ID	Validity of verification			
1. Net quantity label inspection										
Correct and clear label		Unit of measurement				Character height	Label of multi-piece packaging			
Conclusion										
2. Actual quantity testing										
Tare sample size				Mean tare				Allowable shortage		
Correction factor				Relative humidity		%		Temperature	°C	
Serial No.	1	2	3	4	5	6	7	8	9	10
Gross weight ()										
Tare ()										
Actual quantity										

Annex B

Format of the original records of metrological testing for net quantity of (soap) products in prepackages with fixed content (after 6 days of production)

				Testing date:					Serial No.:		
Tested organization				Legal representative or principal				TEL			
Address					Postal code						
Product name			Soap type			Labeled net quantity					
Manufacturer name					Batch						
					Sample size						
Testing basis					Testing method						
Name of measuring equipment	Specifications and model	Accuracy level	Range		Min. division value	Device ID	Validity of verification				
1. Net quantity label inspection											
Correct and clear label			Unit of measurement				Character height			Label of multi-piece packaging	
Conclusion											
2. Actual quantity testing											
Allowable shortage			Relative humidity		%			Temperature		°C	
Serial No.	1	2	3	4	5	6	7	8	9	10	
Gross weight ()											
Tare ()											
Actual quantity ()											
Deviation ()											
After the											