

JJF

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

JJF 1070-2023

**Rules of Metrological Testing for Net Quantity of Products in
Prepackages with Fixed Content**

定量包装商品净含量计量检验规则

(English Translation)

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1 Scope

This Specification stipulates the measurement requirements for the net quantity of products in prepackages with fixed content, metrological testing, as well as the sampling, inspection, assessment activities in the metrological testing process.

This Specification applies to metrological supervision inspection and arbitration inspection of the net quantity of products in prepackages with fixed content.

Commissioned inspections can be carried out with reference to this Specification.

Organizations that produce and sell products in prepackages with fixed content may also conduct self-control inspections with reference to this Specification.

Products in prepackages with fixed content subject to metrological testing shall be products that pass the manufacturer's self-inspection, or products imported and distributed by the seller.

2 Normative references

This Specification makes reference to the following documents:

GB/T 10111 Generation of random numbers and procedures applied to sampling inspection for product quality

For dated referenced documents, only the dated version applies to this specification; for undated referenced documents, the latest version (including all amendments) applies to this specification.

3.1.1 Products in prepackages

The individual goods whose, before sale, contents are pre-packaged with packaging materials or packaging containers, AND which have a predetermined value or quantity (marked with net quantity).

4.1 General

At the packaging, import, distribution, wholesale transaction sites and sales links of products in prepackages with fixed content (such as the production or public sales sites of products in prepackages with fixed content), the nominal quantity and net quantity of products in prepackages with fixed content shall comply with the metrological requirements of 4.2 and 4.3.

4.2.1 Marking of single items

4.2.1.1

The net quantity of the product shall be marked on the principal display panel of the packaging of products in prepackages with fixed content or in a prominent position on the product label.

The marking of net quantity shall be correct, clear and easy to understand. It shall not cause consumers to misunderstand the net quantity of the product.

Note: The product marking referred to in this Specification does not involve health, safety, production date, shelf life, storage conditions, nutritional ingredients, etc.

4.2.1.2 Composition of net quantity marking

The net quantity marking consists of three parts: "net quantity" (Chinese), numbers, legal measurement units (or counting units expressed in Chinese), such as "net quantity:

500 grams".

Note: The counting unit expressed in Chinese refers to the non-physical quantity unit expressed in Chinese characters.

For the products in prepackages with fixed content whose net quantity is marked in terms of length, area, counting units, they can be exempted from the need to mark the three Chinese characters "net quantity", but only mark the figure of the net quantity and the legal unit of measurement (or the counting unit expressed in Chinese). For example,

"50 meters", "10 square meters", "100 pieces".

The numerical part in the net quantity marking shall usually not exceed 3 significant figures. For example, it shall be marked as "net quantity: 5.55 kg" instead of "net quantity: 5.555 kg".

If the net quantity marked on the product packaging includes a free (gift) amount, any

5.1.1 Sampling and metrological inspection methods

Metrological supervisory inspection on the net quantity of products in prepackages with fixed content shall be carried out in strict accordance with the requirements and procedures of this Specification.

If the metrological inspection of net quantity is carried out by sampling method, sampling shall be carried out in accordance with the sampling method specified in

Appendix A of this Specification, at the production and packaging sites, import, distribution, wholesale transactions, sales links of products in prepackages with fixed content.

Metrological inspection shall be carried out on various types of products with different labeling methods, in accordance with the inspection methods specified in Appendix B, Appendix F to Appendix K of this Specification. For products in prepackages with fixed content where there is no metrological inspection methods in this Specification, it shall be implemented in accordance with corresponding international standards, national standards or other methods prescribed by the State Administration for Market

Regulation.

When the above requirements of this Article are met, the inspection agency shall choose non-destructive inspection methods for metrological inspection as much as possible, to reduce unnecessary waste.

5.1.2 Homogeneity of products and samples

Sampling an inspection batch shall ensure that all products in prepackages with fixed content in the inspection batch have equal sampling probability.

If sampling is done at the production or packaging site, the inspection batch shall be all products in prepackages with fixed content on the production line, that have not been rejected by the inspection system. The samples taken must be self-inspection qualified products after packaging inspection in the final packaging process.

During the sampling process, in addition to normal operating adjustments or correction measures for the production line, abnormal operating adjustments or corrections to the filling or inspection process of the production line shall be prohibited.

5.1.3 Measurement uncertainty

The expanded uncertainty of measuring instruments and metrological inspection methods, which are related to determining the actual quantity inspection results of products in prepackages with fixed content, shall not exceed $0.2T$ ($k = 2$).

Factors that affect the uncertainty of metrological inspection results include the maximum allowable error and repeatability of the measuring instrument, changes in packaging materials, density fluctuations caused by differences in the amount of solids in the liquid or temperature changes, etc.

5.1.4 Net quantity inspection of inspection batches

5.1.4.1

Regardless of whether the sampling inspection method is used to determine the compliance of the inspection batch, each metrological testing of the net quantity of the product shall include the following three parameters: