



OIML R 87 edition 2016
Annex C
Drained Weight

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Labelling of prepackages with drained weight

General: The drained quantity requirements apply to food products packed in the following liquid mediums, either singly or in combination, which are regarded as packing material and shall not be included as part of the nominal quantity of the product:

Liquids are defined in Annex C of OIML R 87 and are in accordance with Codex Alimentarius and WELMEC 6.8 (edition 2013) (CODEX STAN 1-1985, section 4.3.3) :

- water;
- aqueous solutions of salt (brine);
- aqueous solutions of sugars or other sweetening substances;
- fruit or vegetable juices in canned fruit or vegetables only;
- vinegar.

Labelling of prepackages with drained weight

General: The procedure in Annex C (Informative) of OIML R 87 may be used to determine the drained quantity of products in a liquid medium:

The following labelling can be found:



Quantity including the liquid medium

Drained Quantity without the liquid

Volume of container: not mandatory

Labelling of prepackages with drained weight

Please note:

According to regional or national legislation the requirements for declaring the drained weight and/or net weight might be different



In the EU the net weight (including the liquid) and the drained weight has to be declared, independ whether the liquid is consumable or not

Test apparatus

Use a flat sieve with a square mesh of 2.5 mm and wire thickness of 1.0 mm.

For prepackages up to 850 ml capacity use a sieve with a diameter of 20 cm.

For prepackages exceeding capacity of 850 ml use a sieve with a diameter of 30 cm.



Test apparatus and procedure



Procedures for determination of drained weight

1. Select a sample of prepackages in accordance with the sampling procedures according OIML R87

Please note: A tare sample is not needed because all the packages in the sample will be opened and measured.

2. Store the samples for a period of 12 hours before testing within the temperature range specified by the packer or between 20 °C and 24 °C.

Procedures for determination of drained weight

3. Weigh the sieve and drip pan and record the weight.
(Me_1)
4. Open the prepackage and pour the product and liquid medium across the sieve.
 - Distribute the product including the liquid medium over the surface of the sieve. Do not shake the material on the sieve.
 - If the nominal quantity is 2.5 kg or more, weigh the whole amount, then divide it among several sieves.
5. Tilt the sieve to an angle of 17° to 20° from the horizontal to facilitate draining.

Procedures for determination of drained weight

6. Carefully invert by hand all solid product, or parts thereof, which have hollows or cavities if they fall on the sieve with the hollows or cavities facing upwards.
7. Drain for 2 minutes.
8. Place the sieve on the drip pan and reweigh the sieve, drip pan and contents. (Me_2)

Procedures for determination of drained weight

9. Calculate the drained mass (quantity) as follows:

$$M = Me_2 - Me_1$$

Where:

M = drained mass of the product

Me_1 = mass of the clean sieve and drip pan

Me_2 = mass of the sieve and drip pan plus product after draining



**Thank you for your
attention**