

**MERCOSUR / LXXIV SGT N° 3 / P. BEEF. No. 07/20**

**MERCOSUR TECHNICAL REGULATION ON METROLOGICAL CONTROL  
OF PRE-ORDERED OR PRE-PACKAGED PRODUCTS MARKETED IN  
UNITS OF LENGTH OR NUMBER OF UNITS OF CONTENT  
NOMINAL EQUAL  
(REPEAL OF RESOLUTION GMC N ° 17/10)**

**SEEN:** The Treaty of Asunción, the Protocol of Ouro Preto and the Resolutions N° 17/10 and 45/17 of the Common Market Group.

**CONSIDERING:**

That this metrological control system is intended to facilitate the exchange trade between the Member States of MERCOSUR and to eliminate technical barriers that are an obstacle to the free movement of pre-measured or prepackaged products and guarantee the defense of the consumer.

That the international recommendation OIML R 87 edition 2016 (E) presents updates regarding the metrological control of pre-measured products or prepackaged marketed in units of length or number of units of equal nominal content.

**THE COMMON MARKET GROUP  
RESOLVES:**

Art. 1 - Approve the “MERCOSUR Technical Regulation on the Metrological Control of Premeasured or Prepackaged Products Marketed in Units of Length or Number of Units of Equal Nominal Content”, which appears as Annex and form part of this Resolution.

Art. 2 - This Resolution shall be applied in the territory of the States Parties, at the trade between them and extra-zone imports.

Art. 3 - The States Parties will indicate within the scope of Sub-Working Group No. 3 "Technical Regulations and Conformity Assessment" (SGT N ° 3) the agencies competent national authorities for the implementation of this Resolution.

Art. 4 - The States Parties will have a period of one year to implement the Technical Regulations approved by this Resolution after incorporation to their national legal systems.

Art. 5 - Repeal GMC Resolution No. 17/10.

Art.6 - This Resolution must be incorporated into the legal system of the States Parties before xx / xx / xx.

**LXXIV SGT N° 3 - Montevideo, 09 / XII / 20**

**MERCOSUR TECHNICAL REGULATION ON METROLOGICAL CONTROL  
OF PRE-ORDERED OR PRE-PACKAGED PRODUCTS MARKETED  
IN UNITS OF LENGTH OR NUMBER OF UNITS OF CONTENT  
NOMINAL EQUAL**

**1. OBJECTIVE AND FIELD OF APPLICATION**

This Regulation establishes the metrological requirements and the sampling plans for check the content of pre-measured or prepackaged products with nominal content equal, expressed in units of length or number of units.

**2. DEFINITIONS**

**2.1 Premeasured or prepackaged product:** Unit ready to be presented to a consumer consisting of a product and its packaging, prepared prior to its putting into sale and in which the product quantity has a predetermined value. The packaging may contain partially or totally the product, but the amount of product It must not be able to be altered without the container being opened or modified in a way perceptible.

**2.2 Product:** All pre-measured or prepackaged product that is not container.

**2.3 Packaging:** Any part of the premeasured or prepackaged product used for contain, protect or manipulate the product, which must remain after use, except natural parts of products that are not consumed.

**2.4 Nominal content or net content (Q<sub>n</sub>):** Quantity of product declared in the label on the container.

**2.5 Actual or effective content (Q<sub>i</sub>):** Quantity of product that a product contains premeasured or prepackaged.

**2.6 Inspection lot or lot (N):** Identified group of pre-measured products or prepackaged that will be inspected in relation to the requirements of this Regulation.

**2.7 Sample:** Set of pre-measured or prepackaged products withdrawn randomly from an inspection lot, to be tested to determine its compliance with specific criteria for making approval decisions or failure of the inspection lot.

**2.8 Random sampling: Sampling** procedure in which the products Premeasured or prepackaged to be included in the sample are withdrawn randomly from the inspection lot. Each of the products in the batch of inspection must have an equal probability of being included in the sample.

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**2.9 Sample size (n):** Number of units of premeasured product or prepackaged removed from the inspection lot and included in the sample.

**2.10 Average value of the actual or effective contents (q<sub>med</sub> or Q<sub>med</sub>):** Sum of the actual or effective contents of each unit of the product in an inspection, divided Enter number of units in the sample (q<sub>med</sub>) or the batch (Q<sub>med</sub>).

**2.11 Sample correction factor (k):** It is a factor determined using the Inverse cumulative distribution function *Student's t* is used to evaluate whether the product meets the criterion for acceptance of the mean in a sample control. The values of k are found in Table II.

$$= \sqrt{t_{-0.005, -1}^2 - 1}$$

**2.12 Individual tolerance (T):** It is the difference allowed for less between the

actual or effective content and nominal content in a premeasured product or prepackaged.

### 2.13 Errors:

**2.13.1 Individual error:** Difference between the actual or effective content ( $Q_i$ ) in a prepackaged or premeasured product and its nominal content ( $Q_n$ ).

**2.13.2 Average error:** Average of individual unit errors the batch or the sample.

**2.13.3 Error T1:** Error greater than the applicable individual tolerance (T), but not greater than twice the same (2T), for a certain nominal content.

$$T1 \text{ error: } (-2) \leq (-)$$

**2.13.4 T2 error:** Error greater than twice the applicable individual tolerance.

$$T2 \text{ error: } < (-2)$$

**2.14 Standard deviation of individual sample errors (s):** Equal to the square root of the sum of the squares of the differences between the errors individual units and the average error, divided by the number of units in the sample minus one.

## 3. METROLOGICAL REQUIREMENTS FOR PRE-MEASURED PRODUCTS OR PREPACKAGED

**3.1 General:** Pre-measured or prepackaged products must comply with the requirements of items 3.2 and 3.3 at any level of the distribution chain, including the packer, importer, distributor, wholesaler and point of sale.

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**3.2 Requirement for the mean:** The average of the actual or effective quantity in the Pre-measured or prepackaged products must be at least equal to the nominal content. If the average of the actual or effective quantity of product in a batch of inspection is estimated by sampling must meet the criteria established in item 4.2.1.

### 3.3 Individual requirement:

**3.4.3** The actual or effective quantity in a premeasured or prepackaged product must accurately reflect nominal content, but tolerances are allowed individual (T) as established in item 3.4.

**3.4.4** A homogeneous group of pre-measured or prepackaged products must not contain more than 2.5% drives with T1 errors. If this requirement is evaluated by sampling from an inspection lot, the criteria of item 4.2.2.

**3.4.5** No pre-measured or prepackaged product can have a T2 error.

### 3.4 Individual tolerances:

Individual tolerances for pre-measured or prepackaged products are established in Table I.

Table I: Individual tolerances

Nominal quantity of product ( ) in length	Percentage of
$\leq 5$	Tolerable deficiency is not allowed
$> 5$	two
Nominal quantity of product	Percentage of

( ) in number of units

≤ 50

Tolerable deficiency is not allowed

> 50

1 <sup>(a)</sup>

(a) Calculate the value of by multiplying the nominal amount by 1% and rounding the result to the next higher whole number. Value can be greater than 1% due to rounding, but it is accepted because the products they are integer elements and cannot be divided.

#### 4. BENCHMARK TESTS FOR METROLOGICAL REQUIREMENTS

##### 4.1 General inspection requirements:

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**4.1.1** Tests shall be carried out to determine whether the premeasured products or Prepackaged meet the requirements of this Regulation. The essays can be carried out by sampling at any level of the distribution chain including the packer, importer, distributor, wholesaler and point of sale.

**4.1.2** An inspection lot withdrawn from the production line consists of all pre-measured or prepackaged products not rejected by a system of control. All kinds of adjustments other than normal settings should be avoided. operation or other corrective actions in the production and packaging process of pre-measured or prepackaged products. Samples must be withdrawn after the final point of packaging.

**4.1.3** The uncertainty expanded with a confidence level of 95%, with a factor coverage equal to 2, assuming a normal distribution, associated with the measuring instruments and test methods used to determine the contents must be less than or equal to 0.2T.

**4.1.4** An inspection consists of determining the following parameters:

- a) The average batch error;
- b) The number of units with T1 error;
- c) The number of units with T2 error.

**4.1.5** An inspection lot is:

- a) Approved if it meets the metrological requirements established in item 3 for the three parameters of item 4.1.4; or
- b) Failed if it does not meet at least one of the requirements.

##### 4.2 Sampling control of inspection lots

The tests to pass or fail an inspection lot can be performed by sampling at any level of the distribution chain, selecting a random sample of size n from lot N.

**4.2.1** Mean criterion:

Fail the batch if:

$< - .$

where:

$q_{med}$  : Average of the actual or effective contents of the sample;  
 $Q_n$  : Nominal content of the product;  
k: Correction factor of the sample obtained from column 4 of the Table II;  
s: Standard deviation of individual sample errors.

**4.2.2** Individual criterion for T1 errors

Retest the batch if the number of units with T1 errors is greater than the number indicated in column 3 of Table II.

**4.2.3** Individual criterion for T2 errors

Retest the batch if there are one or more units with a T2 error.

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### 4.3 Control by total inspection

The total inspection is applicable to the production line, and must be applied individual and mean criteria.

#### 4.3.1 Mean criterion

Fail the batch if:

$$Q_{med} < Q_n$$

where:

$Q_{med}$  : Average of the actual or effective contents of the inspection lot;

$Q_n$  : Nominal content of the product.

#### 4.3.2 Individual criterion for T1 errors

Fail the batch if it contains more than 2.5% units with T1 error. The value calculated must be rounded to whole number.

#### 4.3.3 Individual criterion for T2 errors

Retest the batch if there are one or more units with a T2 error.

### 4.4 Lot size for control sampling (aligned with OIML R87, ed. 2016)

4.4.1 When sampling is performed at the end of a production line the batch size must be equal to the maximum hourly production without any restriction to the size of the lot inspected.

4.4.2 When sampling is performed at the packer facility, but not on the production line and the hourly production is known, the batch size must be equal to the maximum hourly production or 100 thousand units, taking the smallest value as valid.

4.4.3 When sampling is performed at any level in the supply chain, distribution except packer installation, and production is known hourly, the batch size must be equal to the maximum hourly production or 100 thousand units, taking the lowest value as valid.

4.4.4 When sampling is performed at any level in the supply chain, distribution except packer facility, and production unknown hourly nor the size of the production batch, 100 thousand units must be used as batch size.

### 4.5 Sampling characteristics

For a given inspection lot size Table II specifies the size sample, the number of premeasured or prepackaged products with T1 error that

is accepted and the sample correction factor (k). Table II is in item 7 of this Regulation.

### 5. STAGE SAMPLING PLAN (MULTIPLE SAMPLING OR STEP BY STEP)

Tests to pass or fail an inspection lot can be performed using the stepwise sampling plan established in Annex H of OIML R87, ed. 2016

**6. DETERMINATION OF CONTENT BY INDIRECT METHOD (BY MASS)**

The use of an indirect method is allowed, by determining the mass / unit or the mass / length to determine the number of units or the length, only in cases where the homogeneity of the product is such that it can be ensured that the requirements established in item 4.1.3 are met.

**7. TABLE OF SAMPLING PLAN**

Table II: Detailed sampling plan

Lot	Shows	T1 error	k
20 or less	Total Inspection	0	NA
twenty-one	twenty	1	0.14
22	twenty-one	1	0.14
2. 3	22	1	0.13
24	2. 3	1	0.12
25	24	1	0.12
26	25	1	0.11
27	26	1	0.11
28	27	1	0.10
29	2. 3	1	0.27
30	24	1	0.26
31	25	1	0.25
32	26	1	0.24
33	27	1	0.23
3. 4	28	1	0.22
35	28	1	0.24
36	29	1	0.23
37	30	1	0.22
38	31	1	0.21
39	32	1	0.21
40	32	1	0.22
41	28	1	0.30
42	29	1	0.29
43	29	1	0.30
44	30	1	0.29
Four. Five	31	1	0.28
46	31	1	0.29
47	32	1	0.28
48	33	1	0.27

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49	33	1	0.28
fifty	3. 4	1	0.27
51	35	1	0.26
52	35	1	0.27
53	31	1	0.32
54	31	1	0.33
55	32	1	0.32
56	33	1	0.31
57	33	1	0.31
58	3. 4	1	0.30
59	3. 4	1	0.31
60	35	1	0.30
61	46	two	0.20
62	47	two	0.19
63	47	two	0.20
64	42	two	0.25
65	43	two	0.24
66	44	two	0.24
67	44	two	0.24
68	Four. Five	two	0.24
69	46	two	0.23
70	46	two	0.23
71	47	two	0.23
72	48	two	0.23
73	48	two	0.23

74	49	two	0.22
75	fifty	two	0.22
76	Four. Five	two	0.26
77	46	two	0.25
78	46	two	0.26
79	47	two	0.25
80	47	two	0.25
81	48	two	0.25
82	49	two	0.24
83	49	two	0.25
84	fifty	two	0.24
85	fifty	two	0.24
86	51	two	0.24
87	46	two	0.27
88	47	two	0.27
89	47	two	0.27
90	48	two	0.27
91	49	two	0.26
92	49	two	0.26
93	fifty	two	0.26
94	fifty	two	0.26
95	51	two	0.26
96	51	two	0.26

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97	52	two	0.25
98	52	two	0.26
99	48	two	0.28
100	49	two	0.28
101	60	3	0.22
102	61	3	0.22
103	61	3	0.22
104	62	3	0.22
105	63	3	0.21
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118	65	3	0.22
119	65	3	0.22
120	66	3	0.22
121	66	3	0.22
122	62	3	0.24
123	62	3	0.24
124	63	3	0.24
125	63	3	0.24
126	64	3	0.23
127	64	3	0.23
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130	66	3	0.23
131	66	3	0.23
132	67	3	0.23
133	67	3	0.23
134	63	3	0.24
135	64	3	0.24
136	64	3	0.24
137	47	two	0.32

138	47	two	0.32
139	48	two	0.31
140	48	two	0.32
141	59	3	0.27
142	60	3	0.26
143	60	3	0.26
144	61	3	0.26

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145	57	3	0.28
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171	61	3	0.27
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173	61	3	0.27
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192	61	3	0.28

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576	82	4	0.27

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600 to 656	98	5	0.24
657 to 1261	98	5	0.25
1262 to 31094	98	5	0.26
31095 to 100000	98	5	0.27

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