Council Directive of 20 January 1976 on the approximation of the laws of the Member States relating to the making-up by weight or by volume of certain prepackaged products (76/211/EEC)

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[F1ANNEX II

Textual Amendments

F1 Substituted by Commission Directive of 28 September 1978 adapting to technical progress the Annexes to Council Directives 75/106/EEC and 76/211/EEC on prepackaging (78/891/EEC).

2. REQUIREMENTS FOR CHECKING BATCHES OF PREPACKAGES]

- 2.3. Checking of the average actual contents of the individual prepackages making up a batch
- 2.3.1. A batch of prepackages shall be considered acceptable for the purpose of this check if the mean value

$$x^- = \frac{\sum x_i}{n}$$

of the actual contents x_i of n prepackages in a sample is greater than the value:

$$Q_n - \frac{s}{\sqrt{n}} \times t_{(1-\alpha)}$$

In this formula:

 Q_n = the nominal quantity of the prepackage,

n = the number of prepackages in the sample for this check,

s = the estimated standard deviation of the actual contents of the batch,

 $t_{(1-\alpha)}$ = 0.995 confidence level of a Student distribution with v = n - 1 degree of freedom.

- 2.3.2. If x_i is the measured value for the actual contents of the i-th item in the sample containing n items then:
- 2.3.2.1. the mean of the measured values for the sample is obtained by the following calculation:

$$x^- = \frac{\sum_{i=1}^{i=n} x_i}{n}$$

- 2.3.2.2. and the estimated value of the standard deviation s by the following calculation:
- the sum of the squares of the measured values:

$$\sum_{i=1}^{i=n} (x_i)^2$$

— the square of the sum of the measured values:

$$\left(\sum_{i=1}^{i=n} x_i\right)^2$$

then

$$\frac{1}{n} \left(\sum_{i=1}^{i=n} x_i \right)^2$$

— the corrected sum

$$SC = \sum_{i=1}^{i=n} \frac{SC = \sum_{i=1}^{i=n} (x_i)^2 - 1}{n} \left(\sum_{i=1}^{i=n} x_i\right)^2$$

— the estimated variance:

$$v = \frac{SC}{R-1}$$

the estimated value of the standard deviation is:

$$s = \sqrt{v}$$

2.3.3. Criteria for acceptance or rejection of the batch of prepackages for checking the mean:

Document Generated: 2023-08-25

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2.3.3.1. Criteria for non-destructive testing

| Number in batch | Number in sample | Criteria | |
|------------------------|------------------|--|---|
| | | Acceptance | Rejection |
| 100 to 500 (inclusive) | 30 | $x^- \geq Q_n -\!\!\!\!- 0.503 \mathrm{s}$ | $x^- < Q_n -\!\!\!\!- 0.503 \mathrm{s}$ |
| > 500 | 50 | $x^- \geq Q_n -\!\!\!\!- 0.379 \mathrm{s}$ | $x^- < Q_n -\!\!\!\!- 0.379 \mathrm{s}$ |

2.3.3.2. Criteria for destructive testing

| Number in batch | Number in sample | Criteria | | |
|----------------------------|------------------|-----------------------------------|-----------------------------------|--|
| | | Acceptance | Rejection | |
| Whatever the number (≥100) | 20 | $x^- \geq Q_n - 0.640 \mathrm{s}$ | $x^- < Q_{\rm n} - 0.640 {\rm s}$ | |