

SLOVENSKI STANDARD SIST ISO 672:1995

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Mila - Določanje vlage in vsebnost hlapnih snovi - Metoda sušenja v pečici

Soaps -- Determination of moisture and volatile matter content -- Oven method

Savons -- Dosage de l'eau et des matières volatiles - Méthode par étuvage

Ta slovenski standard je istoveten z: (standards.iteh.aj)

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ICS:

71.100.40 Površinsko aktivna sredstva Surface active agents

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INTERNATIONAL STANDARD



672

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION-МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ ORGANISATION INTERNATIONALE DE NORMALISATION

Soaps — Determination of moisture and volatile matter content — Oven method

Savons - Dosage de l'eau et des matières volatiles - Méthode par étuvage

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UDC 661.187:543.71

Ref. No. ISO 672-1978 (E)

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 672 was developed by Technical Committee ISO/TC 91, Surface active agents, and was circulated to the member bodies in August 1975.

It has been approved by the member bodies of the following countries: 995

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Australia India e7a0af43cSouth Africa7Rep.96f Austria Iran Switzerland Belgium Italy Thailand Brazil Japan Turkey Bulgaria Netherlands United Kingdom Canada New Zealand U.S.A. France Poland Yugoslavia Germany Portugal Hungary Romania

The member body of the following country expressed disapproval of the document on technical grounds:

Spain

This International Standard cancels and replaces ISO Recommendation R 672-1968, of which it constitutes a technical revision.

Soaps — Determination of moisture and volatile matter content - Oven method

1 SCOPE

This International Standard specifies an oven method for the determination of the moisture and volatile matter content of commercial soaps, excluding compounded products.

NOTE - Attention is drawn to ISO 4318 which specifies an azeotropic distillation method for determination of water content.

2 FIELD OF APPLICATION

This method permits the determination of water and other substances present which are cremoved by heating at 103 ± 2 °C.

3 REFERENCES

ISO 4318, Surface active agents and soaps hair standards/sist/97151813-1801-4713-b488-

ISO . . ., Soaps — Sampling. 1)

4 PRINCIPLE

Oven-drying of a given mass of sample to constant mass.

5 APPARATUS

Ordinary laboratory apparatus and in particular

- 5.1 Evaporating dish or crystallizing dish, of diameter 6 to 8 cm and depth 2 to 4 cm.
- 5.2 Glass stirring rod.
- 5.3 Sand, washed and calcined, or granulated pumice.
- **5.4** Oven, capable of being controlled at 103 ± 2 °C.

5.5 Desiccator, containing an efficient desiccant, for example phosphorus(V) oxide (P_2O_5) .

Calcium chloride is not satisfactory.

6 SAMPLING

The laboratory samples of soaps shall be prepared and stored according to the instructions given in ISO . . .

7 PROCEDURE

Standards.itWeighato the nearest 0,01 g, about 10 g of the laboratory sample. (In the case of soap bars, cut it into small pieces.)

of water content — Azeotropic distillation method 3c66b/sist-iso-6 Place the stirring rod (5.2) in the dish (5.1) and, only if the analysis is to be carried out on soft soap or on soap liquefiable at 103 ± 2 °C, also place in the dish about 10 g of the sand or pumice (5.3). Dry the dish and stirring rod, with or without added sand or pumice as appropriate, in the oven (5.4), controlled at 103 ± 2 °C. Allow to cool in the desiccator (5.5) and weigh.

> Add the test portion (7.1) to the dish and, if sand or pumice is used, mix this in by means of the stirring rod.

Place the dish in the oven, controlled at 103 ± 2 °C.

After 1 h, remove from the oven and when cool, reduce the material to a fine powder by means of the stirring rod.

Replace in the oven and after 1 h, remove the dish. Place in the desiccator and leave just long enough for it to cool completely to ambient temperature and then weigh. Repeat the operations of heating for periods of 1 h, cooling and weighing until the difference in mass between two successive weighings is less than 0,01 g.

Note the result of the final weighing.

¹⁾ In preparation.

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8 EXPRESSION OF RESULTS

8.1 Method of calculation

The moisture and volatile matter content is given, as a percentage by mass, by the formula

$$\frac{m_1 - m_2}{m_1 - m_0} \times 100$$

where

 m_0 is the mass, in grams, of the dish, rod and, if used, the sand or pumice;

 m_1 is the mass, in grams, of the dish, rod, sand or pumice (if used) and the test portion before heating;

 m_2 is the mass, in grams, of the dish, rod, sand or pumice (if used) and the test portion after heating.

8.2 Reproducibility

The difference between the results obtained on the same

sample in two different laboratories should not exceed 0.25 %.

9 TEST REPORT

The test report shall include the following particulars :

- a) all information necessary for the complete identification of the sample;
- b) the reference of the method used (reference to this International Standard);
- c) the results and the method of expression used;
- d) the test conditions;
- e) any operational details not specified in this International Standard or regarded as optional, as well as any incidents likely to have affected the results.

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