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Rubber latex, natural, concentrate — Determination of sludge content

Latex concentré de caoutchouc naturel — Détermination de la teneur en sédiment

Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword — Supplementary information.

The committee responsible for this document is ISO/TC 45, Rubber and rubber products, Subcommittee SC 3, Raw materials (including latex) for use in the rubber industry.

This fourth edition cancels and replaces the third edition (ISO 2005:1992), which has been technically revised. It also incorporates the amendment ISO 2005:1992/Amd1:2006.

The following changes have been made:

— in the last paragraph of Clause 7, the temperature was changed from (70 ± 2) °C to (70 ± 5) °C, and the period of 30 min for the loss in mass was deleted;

— the precision statement was updated following an interlaboratory test programme conducted in 2012; it was moved to informative Annex A;

— a Bibliography was added.

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Rubber latex, natural, concentrate — Determination of sludge content

1 Scope

This International Standard specifies a method for the determination of the sludge content of natural rubber latex concentrate.

The method is not necessarily suitable for latices from natural sources other than Hevea brasiliensis.

It is not suitable for compounded latex or vulcanized latex.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 123, *Rubber latex — Sampling*

3 Principle

A test portion is centrifuged and the resultant sludge washed repeatedly with ammonia-alcohol solution. The sludge is then dried to constant mass.

4 Reagents

During the analysis, use only reagents of recognized analytical grade and only distilled water or water of equivalent purity.

4.1 Ammonia and alcohol, solution having the following composition:

—	ammonia solution, ρ (0,90 ± 0,02) g/cm^3	10 cm^3
—	ethanol, 95 % (by volume) minimum purity	340 cm^3
—	water	1 000 cm^3

5 Apparatus

Use ordinary laboratory apparatus and the following.

5.1 Centrifuge, producing a mean acceleration of approximately 12 000 m/s^2 (1 200 g), with two 50 cm^3 conical centrifuge tubes or round centrifuge tubes.

5.2 Pipette, of suitable capacity, having a tip opening of diameter approximately 2 mm.

6 Sampling

Carry out sampling in accordance with one of the methods specified in ISO 123.

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