INTERNATIONAL STANDARD

ISO 2004

Fifth edition 2010-09-01

Natural rubber latex concentrate — Centrifuged or creamed, ammonia-preserved types — Specifications

Latex concentré de caoutchouc naturel — Types centrifugés ou crémés, préservés à l'ammoniaque — Spécifications



Reference number ISO 2004:2010(E)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 2004 was prepared by Technical Committee ISO/TC 45, Rubber and rubber products, Subcommittee SC 3, Raw materials (including latex) for use in the rubber industry.

This fifth edition cancels and replaces the fourth edition (ISO 2004:1997), which has been technically revised.

Natural rubber latex concentrate — Centrifuged or creamed, ammonia-preserved types — Specifications

1 Scope

This International Standard gives specifications for natural rubber latex concentrate types which are preserved wholly or in part with ammonia and which have been produced by centrifuging or creaming.

2 Normative references

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

ISO 35, Natural rubber latex concentrate — Determination of mechanical stability

ISO 123, Rubber latex — Sampling

ISO 124, Latex, rubber — Determination of total solids content

ISO 125, Natural rubber latex concentrate — Determination of alkalinity

ISO 126, Natural rubber latex concentrate — Determination of dry rubber content

ISO 127, Rubber, natural latex concentrate — Determination of KOH number

ISO 506, Rubber latex, natural, concentrate — Determination of volatile fatty acid number

ISO 706, Rubber latex — Determination of coagulum content (sieve residue)

ISO 2005, Rubber latex, natural, concentrate — Determination of sludge content

ISO 7780, Rubbers and rubber latices — Determination of manganese content — Sodium periodate photometric methods

ISO 8053, Rubber and latex — Determination of copper content — Photometric method

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

natural rubber latex concentrate

natural rubber latex containing ammonia and/or other preservatives, which has been subjected to some process of concentration

© ISO 2010 – All rights reserved

ISO 2004:2010(E)

3.2

type HA natural rubber latex concentrate

centrifuged latex preserved after concentration with ammonia only, with an alkalinity of at least 0,60 % (by mass) calculated with respect to the latex

3.3

type LA natural rubber latex concentrate

centrifuged latex preserved after concentration with ammonia together with other preservatives, with an alkalinity of not more than 0,29 % (by mass) calculated with respect to the latex

3.4

type XA natural rubber latex concentrate

centrifuged latex preserved after concentration with ammonia together with other preservatives, with an alkalinity between 0,30 % and 0,59 % (by mass) calculated with respect to the latex

3.5

creamed type HA natural rubber latex concentrate

creamed latex preserved after concentration with ammonia only, with an alkalinity of at least 0,55 % (by mass) calculated with respect to the latex

3.6

creamed type LA natural rubber latex concentrate

creamed latex preserved after concentration with ammonia together with one or more additional preservatives, with an alkalinity of not more than 0,35 % (by mass) calculated with respect to the latex

4 Requirements

The latex concentrate shall conform to all the requirements in Table 1.

If one or more preservatives other than ammonia are added to the latex concentrate, the chemical nature and approximate quantity of such preservative(s) shall be stated. The latex concentrate shall not contain fixed alkali added at any stage in its production.

5 Sampling

The latex concentrate shall be sampled by one of the methods specified in ISO 123.

The difference between the total solids content and the dry rubber content.

b The mechanical stability time normally stabilizes within 21 days.

XA is equivalent to medium ammonia (MA) latex.

ISO 2004:2010(E)

ICS 83.040.10

Price based on 3 pages