
Rubber — Determination of total sulfur content by ion chromatography

*Caoutchouc — Détermination de la teneur en soufre total par
chromatographie ionique*

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 19242:2021

<https://standards.iteh.ai/catalog/standards/iso/93032baf-8a5f-4da8-9d30-36bc738c6852/iso-19242-2021>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 19242:2021

<https://standards.iteh.ai/catalog/standards/iso/93032baf-8a5f-4da8-9d30-36bc738c6852/iso-19242-2021>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
4.1 Combustion.....	2
4.1.1 Tubular furnace combustion method	2
4.1.2 Oxygen combustion flask method	2
4.2 Determination.....	2
5 Reagents	2
6 Apparatus	2
7 Procedure	3
7.1 Preparation of sample solutions.....	3
7.1.1 Tubular furnace combustion method	3
7.1.2 Oxygen combustion flask method	3
7.2 Determination of sulfate by ion chromatography.....	3
7.2.1 Setting up the ion chromatograph.....	3
7.2.2 Measuring calibration solutions.....	3
7.2.3 Measuring blank solutions and sample solutions.....	4
8 Calculations	4
9 Precision	4
10 Test report	4
Annex A (normative) Preparation of sample solutions by the tubular furnace combustion method	5
Annex B (normative) Preparation of sample solutions by the oxygen combustion flask method	8
Annex C (informative) Examples of conditions for ion chromatography	11
Annex D (informative) Precision data from an interlaboratory test programme	13
Bibliography	15

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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 2, *Testing and analysis*.

This second edition cancels and replaces the first edition (ISO 19242:2015), of which it constitutes a minor revision. The main changes compared to the previous edition are as follows:

- the CAS numbers have been added for all chemicals listed in this document;
- [Clause 3](#) on “Terms and definitions” has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.