

This is a preview of "ISO 685:2020". [Click here to purchase the full version from the ANSI store.](#)

Second edition
2020-02

Analysis of soaps — Determination of total alkali content and total fatty matter content

*Analyse des savons — Détermination des teneurs en alcali total et en
matière grasse totale*



Reference number
ISO 685:2020(E)

© ISO 2020

This is a preview of "ISO 685:2020". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2020

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
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

This is a preview of "ISO 685:2020". Click here to purchase the full version from the ANSI store.

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Reagents	2
6 Apparatus	2
7 Sampling	2
8 Procedure	2
8.1 General.....	2
8.2 Test portion.....	3
8.3 Determination.....	3
8.3.1 General.....	3
8.3.2 Determination of total alkali content.....	3
8.3.3 Determination of total fatty matter content.....	4
9 Expression of results	4
9.1 Total alkali content.....	4
9.1.1 Method of calculation and formulae.....	4
9.1.2 Reproducibility.....	5
9.2 Total fatty matter content.....	5
9.2.1 Method of calculation and formula.....	5
9.2.2 Reproducibility.....	5
10 Test report	5

This is a preview of "ISO 685:2020". Click here to purchase the full version from the ANSI store.

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 91, *Surface active agents*.

This second edition cancels and replaces the first edition (ISO 685:1975), which has been technically revised.

The main changes compared to the previous edition are as follows:

- “liquid soaps” has been added in the Scope;
- the sentence “This method for the determination of total alkali is not applicable to coloured soaps if the colour interferes with the methyl orange end-point.” has been deleted from the Scope;
- in [8.3.1](#), “until there is an excess of about 5 ml” has been changed to “until there is an excess of about 10 ml”;
- in [8.3.1](#), “Repeat the shaking until the aqueous layer has become clear” has been changed to “Repeat the shaking until the water phase is clearly separated from the organic phase (if the two-phase layer is not obvious, the emulsification can be broken by adding ethanol that does not exceed the volume of the water phase)”;
- in [8.3.2](#), the sentence “If the soap colour interferes with the methyl orange end-point, a pH meter can be used to indicate the end point (pH value 3,1 to 4,4, maintain 10 s) during titration.” 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.