

---

**Guidelines on types of glass of normal  
bulk-production composition and their test  
methods**

*Lignes directrices sur les types de verre de composition normale de  
production en vrac et leurs méthodes d'essai*

This material is reproduced from ISO documents under International  
Organization for Standardization (ISO) Copyright License number  
IHS/ICC/1896. Not for resale. No part of these ISO documents may be  
reproduced in any form, electronic retrieval system or otherwise, except as  
allowed in the copyright law of the country of use, or with the prior written  
consent of ISO (Case postale 58, 1211 Geneva 20, Switzerland, Fax +41 22  
734 10 79), IHS or the ISO Licensor's members.



## Contents

1 Scope .....	1
2 Normative references .....	1
3 Main types of glass of normal bulk-production composition .....	2
4 Chemical properties of glass and glass articles .....	2
4.1 General .....	3
4.2 Glass as a material and glass as-delivered .....	3
4.3 Test methods .....	3
4.3.1 Hydrolytic resistance (see ISO 719, ISO 720, ISO 4802-1 and ISO 4802-2) .....	3
4.3.2 Acid resistance (see ISO 1776) .....	3
4.3.3 Alkali resistance (see ISO 696) .....	4
4.3.4 Other chemical test methods .....	4
4.4 Classifications of glass and glass articles according to their chemical properties .....	4
4.4.1 Principle of classifications .....	4
4.4.2 Classification table and/or limit values .....	4
5 Physical properties .....	7
5.1 Thermal properties .....	7
5.2 Other physical properties .....	7
Annex A (informative) Bibliography .....	8

© ISO 1997

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 the publisher.

International Organization for Standardization  
Case Postale 56 • CH-1211 Genève 20 • Switzerland  
Internet: [orders@iso.ch](mailto:orders@iso.ch)  
X.400: c=ch, o=ISOinet, p=iso, ou=iso, s=central

Printed 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.

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.

International Standard ISO 12775 was prepared by Technical Committee ISO/TC 48, *Laboratory glassware and related apparatus*, Subcommittee SC 5, *Quality of glassware*.

Annex A of this International Standard is for information only.