

First edition
2003-10-01

Elastomeric parts for parenterals and for devices for pharmaceutical use —

Part 1: Extractables in aqueous autoclavates

*Éléments en élastomère pour administration parentérale et dispositifs à
usage pharmaceutique —*

Partie 1: Substances extractibles par autoclavage en milieu aqueux



Reference number
ISO 8871-1:2003(E)

© ISO 2003

This is a preview of "ISO 8871-1:2003". [Click here to purchase the full version from the ANSI store.](#)

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.

© ISO 2003

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

This is a preview of "ISO 8871-1:2003". [Click here to purchase the full version from the ANSI store.](#)

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Classification	2
4 Requirements	2
5 Sampling	2
6 Apparatus and reagents	3
7 Preparation of test solutions	4
Annex A (normative) Appearance of solution	5
Annex B (normative) Acidity or alkalinity	9
Annex C (normative) Absorbance	10
Annex D (normative) Reducing substances	11
Annex E (normative) Extractable heavy metals	12
Annex F (normative) Extractable zinc	14
Annex G (normative) Extractable ammonia	15
Annex H (normative) Residue on evaporation	16
Annex I (normative) Volatile sulfides	17
Annex J (informative) Conductivity	18
Bibliography	19

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 8871-1 was prepared by Technical Committee ISO/TC 76, *Transfusion, infusion and injection equipment for medical and pharmaceutical use*.

Together with the other parts (see below), this part of ISO 8871 cancels and replaces ISO 8871:1990, which has been technically revised.

ISO 8871 consists of the following parts, under the general title *Elastomeric parts for parenterals and for devices for pharmaceutical use*:

- *Part 1: Extractables in aqueous autoclavates*
- *Part 2: Identification and characterization*
- *Part 3: Determination of released-particle count*
- *Part 4: Biological requirements and test methods*
- *Part 5: Functional requirements and testing*

This is a preview of "ISO 8871-1:2003". [Click here to purchase the full version from the ANSI store.](#)

Introduction

The elastomeric parts specified in the various parts of this International Standard are produced from a material which is usually called "rubber". However, rubber is not a unique entity, since the composition of rubber materials may vary considerably. The base elastomer and the type of vulcanization have a major influence on the principle characteristics of an individual rubber material, as do additives such as fillers, softeners and pigments. These may have a significant effect on the overall properties. The effectiveness, purity, stability and safe handling of a drug preparation may be affected adversely during manufacture, storage and administration if the rubber part used has not been properly selected and validated (approved).