
**Ships and marine technology — Inflatable
rescue boats — Coated fabrics for
inflatable chambers**

*Navires et technologie marine — Bateaux de sauvetage gonflables —
Supports textiles revêtus pour chambres gonflables*



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.

This document is a preview generated by EVS

© ISO 2000

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.ch
Web www.iso.ch

Printed in Switzerland

Contents

Page

Foreword.....	iv
Introduction	iv
1 Scope	1
2 Normative references	1
3 General requirements.....	2
4 Testing of production fabrics	4
5 Marking	4
6 Approval-testing procedures.....	4

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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 15372 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 1, *Lifesaving and fire protection*.

Introduction

This International Standard is intended to supplement International Maritime Organization (IMO) requirements for rescue boats used on ships complying with the 1974 Safety of Life At Sea Convention (SOLAS 74), as amended.

This document is a preview generated by EVS

This document is a preview generated by EVS

Ships and marine technology — Inflatable rescue boats — Coated fabrics for inflatable chambers

1 Scope

This International Standard specifies the minimum requirements for coated fabrics, and test procedures for those fabrics, for use in the construction of inflatable chambers of rescue boats complying with the 1974 Safety of Life at Sea Convention (SOLAS), as amended; Chapter I, paragraph 1.2, and Chapter V of the International Life-Saving Appliance Code [IMO Resolution MSC.48 (66)]; and the IMO Assembly resolution A.689(17), as amended. These coated fabrics consist of a base textile with a synthetic elastomeric or plastomeric compound applied to one or both faces.

Requirements for fabrics for inflatable boats other than SOLAS rescue boats are contained in ISO 6185:1982, *Shipbuilding and marine structures — Inflatable boats — Boats made of reinforced elastomers or plastomers*.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 1421:1998, *Rubber- or plastics-coated fabrics — Determination of tensile strength and elongation at break*.

ISO 1817:1999, *Rubber, vulcanized — Determination of the effect of liquids*.

ISO 2286-2:1998, *Rubber- or plastics-coated fabrics — Determination of roll characteristics — Part 2: Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate*.

ISO 2411:2000, *Rubber- or plastics-coated fabrics — Determination of coating adhesion*.

ISO 3011:1997, *Rubber- or plastics-coated fabrics — Determination of resistance to ozone cracking under static conditions*.

ISO 4674:1977, *Fabrics coated with rubber or plastics — Determination of tear resistance*.

ISO 4675:1990, *Rubber- or plastics-coated fabrics — Low temperature bend test*.

ISO 4892-2:1994, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc sources*.

ISO 4892-4:1994, *Plastics — Methods of exposure to laboratory light sources — Part 4: Open-flame carbon-arc lamps*.

ISO 5470:1980, *Rubber or plastics coated fabrics — Determination of abrasion resistance*.

ISO 5978:1990, *Rubber- or plastics-coated fabrics — Determination of blocking resistance*.

ISO 7854:1995, *Rubber- or plastics-coated fabrics — Determination of resistance to damage by flexing*.

International Convention for the Safety of Life at Sea, 1974 (SOLAS 1974), as amended in 1996.

IMO Resolution MSC.48(66), Adoption of the International Life-Saving Appliance (LSA) Code.

IMO Resolution A.689(17)(as amended), Recommendation on Testing of Life-Saving Appliances.

3 General requirements

3.1 Coated fabric

3.1.1 Coated fabric for use in the construction of inflatable chambers of rescue boats shall conform to the performance requirements specified in Table 1 when type tested in accordance with the specified test procedures in clause 6.

3.1.2 Type approval of a fabric applies only to a particular colour or range of colours as tested.

3.2 Base fabric

The base fabric shall be inherently rot-proof.

NOTE Cotton fabric is not considered to be rot-proof.

3.3 Coating material

Coating materials shall be synthetic elastomeric or plastomeric compounds formulated to conform to the relevant performance requirements specified in Table 1.

3.4 Adhesives and welding

Coated fabrics complying with this International Standard are suitable for use in the manufacture of inflatable rescue boats using adhesives and/or thermal-welding techniques consistent with the fabric manufacturer's instructions.

Manufacturers of rescue boats should confer with fabric proofers concerning specific fabrication techniques for specific coated fabrics.