AS 4758.2:2015

Lifejackets

Part 2: Materials and components—Requirements and test methods

This Australian Standard® was prepared by Committee CS-060, Lifejackets and Personal Safety Equipment for Small Craft. It was approved on behalf of the Council of Standards Australia on 24 July 2015.
This Standard was published on 13 August 2015.

The following are represented on Committee CS-060:

- Australian Canoeing
- Australian Chamber of Commerce and Industry
- Australian Maritime Safety Authority
- Australian Power Boat Association
- Boating Industries Alliance Australia
- Certification Interests
- Marine and Safety Tasmania
- Maritime Safety Queensland
- Marine Safety Victoria
- NSW Police Force
- Royal Life Saving Society Australia
- Surf Life Saving Australia
- Transport for NSW
- Yachting Australia

This Standard was issued in draft form for comment as DR AS 4758.2:2015.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

Australian Standard®

Lifejackets

Part 2: Materials and components—Requirements and test methods

Originated as AS 4758.2—2008.
Second edition AS 4758.2:2015.

COPYRIGHT

© Standards Australia Limited

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 76035 191 5

PREFACE

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee CS-060, Lifejackets and Personal Safety Equipment for Small Craft, to supersede AS 4758.2—2008, *Personal flotation devices*, Part 2: *Materials and components—Requirements and test methods,* 2 years from the date of publication.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide manufacturers with the requirements and test methods for the materials and components for use in the construction of lifejackets [also known as 'personal flotation devices' (PFDs)].

This Standard was revised to include requirements for:

(a) Inflation indicators.

(b) Gas cylinders.

(c) Changes from personal floatation device to lifejacket.

This Standard is Part 2 of the following series:

AS		
4758	Lifejackets	
4758.1	Part 1:	General requirements
4758.2	Part 2:	Materials and components—Requirements and test methods (this Standard)
4758.3	Part 3:	Test methods

This Standard is based on but not equivalent to ISO 12402-7:2006, *Personal flotation devices*, Part 7: *Materials and components—Safety requirements and test methods*. Content from this Standard has been reproduced with the permission of ISO. The International Standard is available from SAI Global. Copyright remains with ISO.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

Statements expressed in mandatory terms in footnotes to tables are deemed to be requirements of this Standard.

CONTENTS

Page

Page

STANDARDS AUSTRALIA

Australian Standard
Lifejackets

Part 2: Materials and components—Requirements and test methods

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies the requirements for the structural materials and components and test methods for the construction of lifejackets.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS	
3570	Automotive diesel fuel
4758	Lifejackets
4758.1	Part 1: General requirements
ISO	
139	Textiles—Standard atmospheres for conditioning and testing
1421	Rubber- or plastics-coated fabrics—Determination of tensile strength and elongation at break
1926	Rigid cellular plastics—Determination of tensile properties
2062	Textiles—Yarns from packages—Determination of single-end breaking force and elongation at break using constant rate of extension (CRE) tester
2411	Rubber- or plastics-coated fabrics—Determination of coating adhesion
3696	Water for analytical laboratory use—Specification and test methods
4674	Rubber- or plastics coated fabrics—Determination of tear resistance
4674-1	Part 1: Constant rate of tear methods
7229	Rubber- or plastics-coated fabrics—Measurement of gas permeability
7854	Rubber- or plastics-coated fabrics—Determination of resistance to damage by flexing
9073	Textiles—Test methods for non-wovens
9073-4	Part 4: Determination of tear resistance
9227	Corrosion tests in artificial atmospheres—Salt spray tests
13934	Textiles—Tensile properties of fabrics
13934-1	Part 1: Determination of maximum force and elongation at maximum force using the strip method
13934-2	Part 2: Determination of maximum force using the grab method
13937	Textiles—Tear properties of fabrics
13937-2	Part 2: Determination of tear force of trouser-shaped test specimens (Single tear method)

© Standards Australia