

Australian Standard<sup>®</sup>

---

**TEXTILES—  
CLOTH, DUCK—  
COTTON AND  
POLYESTER/COTTON**

---

[Title allocated by Defence Cataloguing Authority: CLOTH, DUCK  
(Cotton and Cotton/Polyester) NSC 8305]

This Australian Standard was prepared by Committee TX/3, Heavy Textiles and Tarpaulins. It was approved on behalf of the Council of Standards Association of Australia on 23 May 1988 and published on 12 September 1988.

---

The following interests are represented on Committee TX/3:

Australian Canvas and Synthetics Products Association  
Australian Chamber of Commerce  
Australian Road Transport Federation  
Australian Wool Testing Authority  
Confederation of Australian Industry  
Department of Defence  
Plastics Institute of Australia  
Railways of Australia Committee  
Textile Council of Australia  
University of New South Wales

---

**Review of Australian Standards.** To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

---

*This Standard was issued in draft form for comment as DR 86197.*

Australian Standard<sup>®</sup>

---

**TEXTILES—  
CLOTH, DUCK—  
COTTON AND  
POLYESTER/COTTON**

---

First published in part as AS (E)L503—1941.  
Revised and redesignated AS L25—1963.  
Revised and redesignated AS 1820—1976.  
AS 1819 first published—1976.  
AS 1819—1976 and AS 1820—1976 revised,  
amalgamated and redesignated AS 3567—1988.

PUBLISHED BY STANDARDS AUSTRALIA  
(STANDARDS ASSOCIATION OF AUSTRALIA)  
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 5182 8

## PREFACE

This Standard was prepared by the Association's Committee on Tarpaulins and Heavy Textiles under the direction of the Textile Standards Board, to supersede both AS 1819—1976, *Corespun cotton/polyester duck* and AS 1820—1976, *Loomstate cotton duck*.

This Standard takes cognizance of advances in manufacturing processes and in this respect relies on performance characteristics of the product rather than detailed specific requirements such as fibre percentage for blended duck. Also, details of construction are not specified, but are suggested. This Standard relies on the traditional textile definition of duck to define the construction, but also states the performance requirements of what is expected of the finished product in terms of resistance to water penetration. The Standard is in three sections detailing general, manufacturing and test requirements.

Test procedures for textiles are generally dealt with by reference to the AS 2001 series of tests.

## CONTENTS

	<i>Page</i>
SECTION 1. SCOPE AND GENERAL	
1.1 SCOPE . . . . .	3
1.2 REFERENCED DOCUMENTS . . . . .	3
1.3 DEFINITIONS . . . . .	3
1.4 DESIGNATION . . . . .	3
1.5 MARKING . . . . .	3
SECTION 2. MANUFACTURING REQUIREMENTS	
2.1 MATERIALS . . . . .	4
2.2 CONSTRUCTION . . . . .	4
2.3 DIMENSIONS . . . . .	4
2.4 MASS PER UNIT AREA . . . . .	4
2.5 DEFECTS . . . . .	4
2.6 ALLOWANCES . . . . .	4
SECTION 3. TEST REQUIREMENTS	
3.1 BREAKING FORCE . . . . .	5
3.2 TEARING FORCE . . . . .	5
3.3 RESISTANCE TO WATER PENETRATION . . . . .	5
3.4 pH VALUE . . . . .	5
3.5 COLOUR . . . . .	5
3.6 COLOURFASTNESS . . . . .	5
3.7 RESISTANCE TO FUNGAL ATTACK . . . . .	5
APPENDICES	
A COMPLIANCE OF CLOTH WITH THIS STANDARD . . . . .	7
B RESISTANCE TO FUNGAL ATTACK—SOIL BURIAL METHOD . . . . .	8
C REFERENCED DOCUMENTS . . . . .	10

## © Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

## STANDARDS ASSOCIATION OF AUSTRALIA

## Australian Standard

## TEXTILES—CLOTH, DUCK—COTTON AND POLYESTER/COTTON

## SECTION 1. SCOPE AND GENERAL

**1.1 SCOPE.** This Standard specifies requirements for duck and cloths of special weave, made from cotton, blended polyester/cotton, and corespun polyester/cotton yarns. Requirements are given for loomstate cloths and also for cloths which have been treated to impart resistance to water penetration and to rotting.

## NOTES:

1. Procedures for determining compliance of cloths with this Standard are given in Appendix A.
2. Unless the context indicates otherwise the terms 'duck' and 'cloth' as used herein are synonymous.

**1.2 REFERENCED DOCUMENTS.** A list of the Standards referred to in this Standard is given in Appendix C.

**1.3 DEFINITIONS.** For the purpose of this Standard, the definitions below apply.

**1.3.1 Duck**—a closely woven plain weave cloth.

**1.3.2 Special weave**—cloth that has special threads that are woven at intervals in the warp or weft direction, or both directions. These special threads are either two or more yarns woven as one, or yarns which are different to those in the body of the cloth.

NOTE: Cloth of special weave construction is designed to reduce the tendency of propagation of a tear in the cloth.

**1.3.3 Cor spun polyester/cotton yarn**—yarn consisting of an outer sheath of cotton fibre spun around a core of continuous filament polyester.

**1.3.4 Double-spun yarn**—yarn spun from two partially twisted drawn rovings, this partial twist being integrated into a fully twisted single yarn.

**1.3.5 Woven selvedge**—the longitudinal edges of a cloth that are formed during weaving, with the weft not only turning at the edges but also passing continuously across the width of the cloth from edge to edge.

**1.3.6 Leno-edge selvedge**—a selvedge consisting of warp threads at the edges of the cloth which interlace with a gauge weave with severed weft threads.

**1.3.7 Sealed edge selvedge**—a selvedge where the cut edge of a cloth is treated by heat or chemical means to prevent ravelling of the edge.

**1.3.8 Tucked selvedge**—a selvedge where the edge is formed by severing the weft yarns near to the edge of the cloth and tucking the cut yarn into the shed formed on the next pick.

**1.4 DESIGNATION.** The designation of the cloth, whether in loomstate or in rot and water resistant condition, shall be based on the nominal mass per unit area of the loomstate fabric preceded by letters indicating the type of cloth, as follows:

(a) *Cotton duck.*

Loomstate:	CD270, CD340, CD400, CD500, CD610, CD710.
Rot and water resistant:	CDP270, CDP340, CDP400, CDP500, CDP610, CDP710.

(b) *Polyester/cotton blended duck.*

Loomstate:	CB240, CB300, CB360, CB420, CB530, CB630, CB730.
Rot and water resistant:	CBP240, CBP300, CBP360, CBP420, CBP530, CBP630, CBP730.

(c) *Polyester/cotton cor spun duck.*

Loomstate:	CS210, CS280, CS360, CS450.
Rot and water resistant:	CSP210, CSP280, CSP360, CSP450.

**1.5 MARKING.** Each bolt or roll of cloth shall have a drop ticket or label showing the following information:

- Cloth designation (see Clause 1.4).
- Nominal fibre content.
- Piece number.
- Length of bolt or roll in metres, indicating allowances in metres.
- Nominal width of bolt or roll in metres.
- Number of strings or markers.
- Manufacturer's name and country of origin.
- Manufacturer's designation, if required.
- Special care instructions.
- Reference to this Australian Standard, viz AS 3567.

NOTE: Manufacturers who place the number of this Australian Standard on products, or on packaging or literature related thereto, should ensure that the products are manufactured to comply with the Standard.