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Interlinings

Part 4. Specification for woven sew-in interlinings

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Committees responsible for this British Standard

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The preparation of this British Standard was entrusted by the Textiles and Clothing Standards Policy Committee (TCM/-) to Technical Committee TCM/5, upon which the following bodies were represented:

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British Interlining Manufacturers' Association
 British Nonwovens Manufacturers' Association
 British Railways Board
 Council of British Cotton Textiles (CBCT)
 Home Office
 London Regional Transport
 Ministry of Defence
 Textile Finishers' Association
 Textile Research Council (FCRA)

This British Standard, having been prepared under the direction of the Textiles and Clothing Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 31 December 1990

Amendments issued since publication

Amd. No.	Date	Text affected

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The following BSI references relate to the work on this standard:
 Committee reference TCM/5
 Draft announced in *BSI News* September 1990

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Foreword

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This Part of BS 4973 has been prepared under the direction of the Textiles and Clothing Standards Policy Committee and is a revision of BS 4973: Part 4: 1981 which is withdrawn.

BS 4973 is published in four Parts as follows:

- Part 1 Nonwoven sew-in interlinings
- Part 2 Nonwoven fusible interlinings
- Part 3 Woven and knitted fusible interlinings
- Part 4 Specification for woven sew-in interlinings

When BS 4560 was revised in 1980, it was agreed to limit its scope to lining fabrics and to prepare this Part of this British Standard to specify requirements for a range of woven sew-in interlinings selected from those interlinings specified in BS 4560.

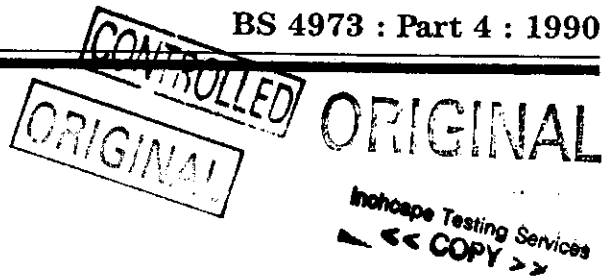
BS 4973 is intended to provide a range of interlinings which will meet public and private sector requirements. It is intended that the interlinings specified in this standard should be used in conjunction with the linings specified in BS 4560 and the outer fabrics specified in BS 1771.

Garment suppliers and purchasers should take account of all the environmental conditions (such as exposure to heat and water) likely to be met during use, to ensure the most suitable fabric is specified.

Many properties cannot be specified objectively and cannot therefore be included in this standard. Examples of such properties include colour, handle, appearance and details of additional design features. Purchasing authorities should be able to supply standard patterns which cover these properties and which may thus serve to resolve any ambiguities of description.

Compliance with a British Standard does not of itself confer immunity from legal obligations. In particular, attention is drawn to Statutory Instrument 1986 No. 26, the Textile products (Indications of Fibre Content) Regulations 1986.

Specification



1 Scope

This Part of BS 4973 specifies requirements for woven sew-in interlinings which are suitable for uniform clothing for use in, for example, the public sector. Construction and performance requirements are given in table 1. Appendix A gives recommended fabrics for various end uses.

Supplementary information for MOD contracts is given in appendix B.

NOTE. The titles of the publications referred to in this Part of this British Standard are listed on the inside back cover.

2 Definitions

For the purposes of this Part of BS 4973 the definitions given in BS 1903, BS 4815 and BS 6189 apply.

3 Construction and performance

Fabrics shall comply with table 1. Linen interlinings shall be made from fibre spun from retted flax.

NOTE 1. Yarns should be evenly spun, fabrics should be uniformly woven, and selvages should be firm, straight and not of excessive thickness such as may cause build-up during laying-up for garment cutting. The colour and finish should be uniform throughout the fabric.

NOTE 2. Interested parties may agree that a flame retardant treatment may be applied, and may agree on the flammability performance which should be met and on the garment cleaning procedures.

NOTE 3. Interlinings made from fabrics complying with this standard should be satisfactory under normal conditions of use. If they are to be used in garments which will be subjected to frequent cleansing, e.g. firemen's uniforms, then allowances should be made for the effects such frequent cleansing treatments may have on certain of the fabric properties.

Garment suppliers and purchasers should take account of all the environmental conditions (such as exposure to heat and water) likely to be met during use, to ensure the most suitable fabric is specified.

If dyed, interlinings shall, when tested in accordance with section DO1 of BS 1006 : 1990 have a minimum rating for change in colour of 4 and a minimum rating for staining of 3 - 4.

4 Sampling

A sample shall be taken either from each batch, or from at least every 5000 m of fabric, whichever is the more frequent. Each sample shall be large enough to provide test specimens for all of the tests indicated in table 1.

5 Testing

Tests shall be carried out on every sample.

6 Marking

Fabrics shall bear the following information, for example on an invoice, or swing ticket on the piece or roll:

- (a) the name, trade mark or other means of identification of the manufacturer;
- (b) the number and date of this British Standard, i.e. BS 4973 : Part 4 : 1990¹⁾;
- (c) instructions, for care and cleansing, in accordance with the recommendations and terminology of BS 2747.

NOTE. In addition the fabric should bear any other marking the contract or order may direct.

¹⁾ Marking BS 4973 : Part 4 : 1990 on or in relation to a product represents a manufacturer's declaration of conformity, i.e. a claim by or on behalf of the manufacturer that the product meets the requirements of the standard. The accuracy of the claim is therefore solely the responsibility of the person making the claim. Such a declaration is not to be confused with third party certification of conformity which may also be desirable.

Table 1. Construction and performance

Fabric reference	Fibre type	Weave	Mass per unit area ¹⁾	Minimum threads per centimetre		Minimum breaking strength		Maximum dimensional change		Maximum total filling by mass	Finish and other details
				Warp	Weft	Warp	Weft	Warp	Weft		
WS1	Linen	Plain	140	19	21	600	460	± 2	± 2	10	Calendered
WS2	Linen	Plain	210	14	13	600	660	± 4	± 2	12.5	Crease-resistant finish
WS3	Linen	Plain	180	12	12	530	460	± 2	± 2	12.5	Crease-resistant finish
WS4	Linen warp/ jute weft	3 × 1 twill to left warp face	800	12	9	1780	2220	—	—	—	600 g/m ² before stiffening
WS5	Cotton/hair	Plain	310	17	11	600	380	± 2	± 2	Composition of finished fabric: warp, 46 % cotton and 12 % filling weft, 31 % hair and 11 % viscose	
WS6	Linen	Plain	190	18	20	730	600	4	2	5	Mangled
Test method			BS 2471	BS 2862		BS 2576		BS 4736		BS 4032	

¹⁾ Subject to a tolerance of +10, -3 % on the specified mass per unit area.

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Appendix A. Recommended fabrics for various end uses

Table 2 gives a list of recommended fabrics for various end uses.

End use	Component	Recommended fabric (reference number)
Interlinings	Collar	WS2, WS3, WS4
	Cuffs	WS1
	Fly	WS1
	Fronts	WS3, WS5
	Shoulder straps	WS4
	Welts	WS1
	Waistbands	WS3
Stays	Buttons	WS1, WS6
	Cuffs	
	Foreparts	
	Pockets	

NOTE. These recommendations are for guidance only and do not prohibit the use of the various interlinings for other purposes if so desired.

Appendix B. Supplementary information for MOD contracts (fabric reference cross-reference information)

Table 3 contains cross-reference information between the fabric references used in BS 4973 : Part 4, MOD pattern numbers and NATO stock numbers.

Fabric reference	Pattern number	NATO stock number
WS1	T551, T8443A	8305-99-942-7523
WS2	T506, T8445A	8305-99-942-7527
WS3	T599, T8446A	8305-99-942-7521
WS4	T502, T8320A	8305-99-942-8282
WS5	T622, T8343A	8305-99-942-7003
WS6	T552, T8063A	8305-99-942-7526

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Publication(s) referred to

- BS 1006 Methods of test for colour fastness of textiles and leather
- BS 1771¹⁾ Fabrics for uniforms and workwear
- BS 1903 Glossary of terms used by the clothing industry
- BS 2471 Methods of test for textiles — Woven fabrics — Determination of mass per unit length and mass per unit area
- BS 2576 Method for determination of breaking strength and elongation (strip method) of woven fabrics
- BS 2747 Code of practice for textile care labelling
- BS 2862 Methods for determination of number of threads per unit length
- BS 4032 Method of test for the determination of certain water- or alkali-soluble additives in cellulosic or synthetic fibres, yarns and fabrics or yarns and fabrics made from blends of such fibres
- BS 4560 Specification for fabrics for linings in uniform clothing
- BS 4736 Method for determination of dimensional changes of fabrics induced by cold-water immersion
- BS 4815 Glossary of generic names for man-made fibres
- BS 4973¹⁾ Interlinings
Part 1 Nonwoven sew-in interlinings
Part 2 Nonwoven fusible interlinings
Part 3 Woven and knitted fusible interlinings
- BS 6189 Glossary of terms relating to fabrics and associated fibres, yarns and processes
- Statutory Instrument 1986 No.26, the Textile products (Indications of Fibre Content) Regulations 1986

¹⁾ Referred to in the foreword only.

BS 4973 :
Part 4 : 1990

BSI — British Standards Institution

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