

Narrow fabrics —

Part 3: Specification for wool tapes

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Textiles and Clothing Standards Policy Committee (TCM/-) to Technical Committee TCM/7, upon which the following bodies were represented:

- British Narrow Fabrics Association
- British Polyolefin Textiles Association
- Consumer Policy Committee of BSI
- Home Laundering Consultative Council
- Man-made Fibres Producers' Committee
- Ministry of Defence
- SATRA Footwear Technology Centre
- Society of Dyers and Colourists
- Textile Institute

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 May 1990

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The following BSI references relate to the work on this standard:
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Foreword

This Part of BS 7141 has been prepared under the direction of the Textiles and Clothing Standards Policy Committee. It includes requirements for narrow fabrics specified in Defence Standard 83-37, which has been withdrawn.

Cross-references are given in Appendix A and information specifically requested by the Ministry of Defence, and which was previously contained in Defence Standards, is given in Appendix B. Appendix C gives additional recommendations.

Other Parts of this British Standard are as follows:

- *Part 1: Specification for polyamide and polyolefin woven tapes and webbings¹⁾*;
- *Part 2: Specification for cotton webbings for personal load carrying purposes¹⁾*;
- *Part 4: Specification for woven elastic webbings containing natural rubber¹⁾*;
- *Part 5: Specification for elastic flat braids containing natural rubber*;
- *Part 6: Specification for laces for boots, shoes and other purposes.*

Product certification. Users of this British Standard are advised to consider the desirability of third party certification of product conformity with this British Standard based on testing and continuing surveillance, which may be coupled with assessment of a supplier's quality systems against the appropriate Part of BS 5750.

Enquiries as to the availability of third party certification schemes will be forwarded by BSI to the Association of Certification Bodies. If a third party certification scheme does not already exist, users should consider approaching an appropriate body from the list of Association members.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

¹⁾ In preparation

1 Scope

This Part of BS 7141 specifies requirements including colour fastness ratings for wool tapes, used mainly in the manufacture of chevron stripes, flashes, etc., for the Ministry of Defence (MoD).

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

2 Definitions

For the purposes of this Part of BS 7141, the following definitions apply.

2.1

narrow fabric

any fabric made by interlacing fibres or yarns which (in the UK) does not exceed 450 mm in width. In the USA and for the purpose of the Combined Nomenclature of the European Community, for tariff purposes, the upper width limit is 300 mm. A characteristic of a narrow fabric is that its edges are an essential feature

2.2

pick

a single operation of the weft insertion mechanism in weaving

2.3

selvedge

when used without qualification, a longitudinal edge of a fabric formed during weaving, with the weft not only turning at the edges but also passing continuously across the width of the fabric from edge to edge

2.4

shuttleloom

a term used to describe a weaving machine that uses a shuttle to insert the weft

2.5

tape

a woven narrow fabric, generally plain-weave, used in non-loadbearing applications and for the reinforcing of fabrics to resist wear and deformation

2.6

V draft

in twill fabrics having alternate right and left twills forming a series of Vs, the number of V formations across the fabric width

2.7

weave

the pattern of interlacing of warp yarns and weft yarns in a woven fabric

2.8

batch

a definite quantity of some commodity produced under prescribed uniform conditions

3 Materials

The fabric shall be manufactured from 100 % new wool, except for those items specified otherwise in Table 1.

NOTE Worsted yarn of R74/2 tex and cotton or viscose yarn of R30/2 tex may be suitable to produce these fabrics.

4 Construction

4.1 The construction of the tapes shall comply with Table 1.

4.2 The tape shall be woven by shuttleloom.

4.3 The finished tapes shall not contain more than 1 % by mass of grease, soap, filling, or any admixture used to increase the mass per metre or to give substance or firmness.

NOTE In cases of dispute, the percentage should be determined in accordance with BS 3582.

4.4 Sulphur black dyes shall not be used.

4.5 In finished tapes which are chrome dyed, the amount of soluble hexavalent chromium shall not exceed 0.01 %, calculated as $K_2Cr_2O_7$ when determined in accordance with BS 6810.

4.6 The minimum colour fastness of the yarn or finished fabric shall comply with Table 2.

NOTE If the colour fastness of the yarn has been tested prior to manufacture, there is no need to carry out further tests after manufacture.

5 Sampling

Samples shall not be taken from the first 3 m of textile manufactured. Sampling shall be as follows.

a) Woven fabrics, loomstate.

1) For fabrics woven from beams, take one sample from one piece per beam.

NOTE The quantity of fabric produced from one weaver's beam or from a creel contains the same warp yarns throughout and is woven in one particular form. As such, it constitutes a unique batch or unit of production, provided that weft yarn of substantially consistent quality has been used. If a fresh delivery of weft yarn of unproved quality is introduced during weaving the warp, a fresh batch has been created and further samples for complete fabric tests become necessary. Manufacturers should maintain continuous quality control of weft yarn in respect of the relevant properties, e.g. type of fibre, linear density, strength.

2) For fabrics woven from creels, take one sample from one piece from each continuously woven length not exceeding 5 000 m.