

IRISH STANDARD SPECIFICATION

WOOLLEN BLANKETS

I.S. 26: 1982

Price Code B

INSTITUTE FOR INDUSTRIAL RESEARCH AND STANDARDS

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DECLARATION

OF

SPECIFICATION

ENTITLED

WOOLLEN BLANKETS

AS

THE IRISH STANDARD SPECIFICATION FOR

WOOLLEN BLANKETS

The Institute for Industrial Research and Standards in exercise of the power conferred by section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry and Energy hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Woollen Blankets) Declaration, 1982.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Woollen Blankets.
(2) The said standard specification may be cited as Irish Standard 26:1982 or as I.S. 26:1982.
3. (1) The Standard Specification (Woollen Blankets) Order, 1950 (S.I. No. 109 of 1950) is hereby revoked.
(2) Reference in any other standard specification to the Order hereby revoked and to Irish Standard 26:1950, thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 26:1982.

SCHEDULE

Woollen Blankets

1. GENERAL

1.1 Scope. This specification covers the requirements for plain or coloured woven all-wool blankets for household and institutional use.

1.2 Definitions

1.2.1 Woven woollen blankets. A textile article of bedding made up before use and so designed as to provide thermal insulation to increase the comfort of the user by helping the body to retain the heat necessary to it, the article's thermal qualities being dependent on the volume of air retained between the fibres by raising the two faces of the material, and on the wool fibres themselves (AS L 43:1965* published by the Standards Association of Australia).

1.2.2 Plain weave. A weave in which each weft thread passes alternately over and under a warp thread, and each warp thread passes alternately over and under a weft thread (ISO 3572:1976 issued by the International Organization for Standardization).

1.2.3 Twill weave. A weave having a weave repeat of at least three weft threads and which produces twill lines (ISO 3572:1976).

1.2.4 Raising. The production of a layer of protruding fibres on the surface of fabrics by brushing, teasing or rubbing.

Note: The fabric, in open width, is passed between rotating rollers covered with teazles, fine wires, carborundum etc., whereby the surface fibres are pulled out or broken to give the required effect (see Textile Terms and Definitions, 1975, published by The Textile Institute, Manchester, England).

1.3 References. This specification requires reference to the Standards listed in Appendix A.


1.4 Classification. Three grades of woven blankets are covered in this specification as follows:

- (a) Heavy Grade (b) Medium Grade (c) Light Grade

1.5 Marking. The following information shall be marked on a label attached to each blanket:

- (a) the manufacturer's registered name or trade mark,
- (b) the legend 'Made in Ireland',
- (c) the words 'pure new wool' (or the International Wool Secretariat's Woolmark),
- (d) the grade and dimensions of the blanket in cm and its mass in kg or its mass per unit area (kg/m²),
- (e) the inscription, "I.S. 26:1982",
- (f) the words 'shrink-resistant' and 'moth-resistant'.

1.6 Cleaning instructions. Instructions for machine and hand wash providing recommendations on temperature, mechanical action, rinsing and wringing, shall be provided. This information may be incorporated in the label mentioned in section 1.5 or on a separate label. An example of a typical such label is given below.

Symbol	Machine wash	Hand wash
	Warm Minimum wash (40°C)	Warm (40°C) Do not rub
	Spin, Do not hand wring	

*See Appendix A for full titles of foreign standards.

1.7 Manufacturer's certificate. On request the manufacturer shall provide to the purchaser a certificate stating that at time of delivery the blankets complied with the requirements of this specification.

Note: Manufacturers who place the number of this Irish Standard on blankets, packaging or literature related thereto should ensure that the blankets are manufactured to comply with the standard.

Attention is particularly drawn to the scheme for independent assurance provided by the Irish Standard (Caighdean Eireannach) Mark which is a mark prescribed by Order of the Minister for Industry and Energy (S.I. No. 81 of 1964) as the Standard Mark and may be used only under licence issued by the Institute for Industrial Research and Standards. The presence of the Standard Mark on or in relation to a product is an assurance that the goods have been produced under a system of supervision, control and testing applied during manufacture and including periodical inspections at the manufacturer's works in accordance with the Certification Mark Scheme of the Institute. The Mark which is shown below can be used only by manufacturers licensed under the Certification Mark Scheme operated by the Institute and only when accompanied by the number of the relevant Irish Standard.



Further particulars of the licensing terms may be obtained from the Director, Standards Division, Institute for Industrial Research and Standards, Ballymun Road, Dublin 9.

2. MANUFACTURING REQUIREMENTS

2.1 Wool composition and quality. The blankets shall be made from sound new wool free from waste, shoddy or impurities. The wool shall be clean-scoured and its mean fibre diameter when tested in accordance with ISO 137:1975 shall be $28 \pm 2 \mu\text{m}$.

2.2 Manufacture. The blankets shall be woven from yarns uniformly spun on the woollen system from wool complying with this specification. The weave may be plain or twill. The blankets shall be treated with shrink-resistant and moth-proof finishes; the nature of these finishes shall require the approval of the purchaser. Where selvages are used they shall be firm and straight. The mass per unit area, number of warp and weft threads per unit length, breaking load, and shrinkage limits are shown in Table 1.

TABLE 1 – PERFORMANCE REQUIREMENTS FOR WOOLLEN BLANKETS

Property	Heavy Grade	Medium Grade	Light Grade	Test Method
Mass per unit area (kg/m ²) (min.)	0.525	0.420	0.315	ISO 3801:1977
No. of Warp threads per cm (min.) No. of Weft threads per cm (min.)	6 7	5 6	5 6	Method 4/88 in B.S. Handbook II:1974
Warp breaking load in newtons (min.) Weft breaking load in newtons (min.)	280 260	250 165	200 180	ISO 5081:1977
Maximum dimensional change each direction; laundering (10 cycles)	5%	5%	5%	ISO 675:1979 ISO 3759:1976
Weave	Plain or Twill	Plain or Twill	Plain or Twill	
Colour fastness to washing	See Section 2.6	See Section 2.6	See Section 2.6	ISO 105 – CO1: 1978 (E)

2.3 Workmanship and finish. The blankets shall be manufactured in conformity with the best manufacturing practice and shall be free from defects or blemishes that would impair their appearance or serviceability. The degree of raising shall be as agreed between the purchaser and the vendor.

2.4 Stitching. Blankets shall be turned in 15 mm and be securely sewn at both ends or all round (at the option of the purchaser) with R 220 TEX/2 yarn so that the overlap shall be not less than 15 mm. The stitches shall be not more than 7 mm apart measured on the side of the blanket with the stitches running parallel to one another. Alternatively the ends shall be securely bound with ribbon made of silk, viscose, polyester or polyamide of width not less than 70 mm and mass not less than 150 g/m².

2.5 Dimensions. The dimensions of the blankets after binding or whipping shall be in accordance with the following Table 2 which gives the recommended common standard dimensions for bed blankets as set out in Pr EN 14:1980 'Dimensions of Bed Blankets' published by Comite Europeen de Normalisation, the European regional standards organization. Tolerance on the dimensions shall be $\pm 3\%$. The dimensions shall be determined as prescribed in ISO 3932:1976 and ISO 3933:1976.

TABLE 2 – DIMENSIONS OF BED BLANKETS

Width (cm)	x	Length (cm)
75		100
100		150
150		200
180		240
200		240
220		240
280		240
300		240

2.6 Colour fastness to washing. When tested in accordance with ISO 105-COI:1978 (E) 'Textiles – Tests for colour fastness. COI Colour fastness to washing: Test 1', coloured blankets shall show no more change in colour either through loss of depth or change in hue than grey scale 4 and no more staining than grey scale 3.

3. TEST REQUIREMENTS

3.1 Sampling. From each batch comprising not more than 200 blankets of the same grade and size manufactured under essentially similar conditions, one blanket shall be sampled for testing for conformance with the provisions of this specification. Should a sample fail to satisfy the test requirements, a further two samples from the batch of blankets represented shall be tested. If either of these fails to satisfy the requirements, the batch of blankets represented by the sample shall be tested on an individual blanket basis and any blanket which fails to satisfy the requirements shall be rejected.

3.2 Conditioning of samples for test. All physical and mechanical tests shall be made on materials conditioned in the open piece for not less than 24 hours in the 'standard temperate atmosphere for testing' as defined in section 4 of ISO 139:1973 'Textiles – Standard atmospheres for conditioning and testing'. This standard temperate atmosphere has a relative humidity of $65 \pm 2\%$ and a temperature of $20 \pm 2^\circ\text{C}$. The tests shall be conducted under the same conditions of temperature and humidity.

APPENDIX A

REFERENCE STANDARDS*

International Organization for Standardization (ISO):

- ISO 105 – 1978 Textiles – Tests for colour fastness.
- ISO 137 – 1975 Wool – Determination of fibre diameter – Projection microscope method.
- ISO 139 – 1973 Textiles – Standard atmospheres for conditioning and testing.
- ISO 675 – 1979 Textiles – Woven fabrics – Determination of dimensional change on commercial laundering near boiling point.
- ISO 3572 – 1976 Textiles – Weaves – Definitions of general terms and basic weaves.
- ISO 3759 – 1976 Textiles – Preparation, marking and measuring of fabrics specimens and garments in tests for determination of dimensional change.
- ISO 3801 – 1977 Textiles – Woven fabrics – Determination of mass per unit length and mass per unit area.
- ISO 3932 – 1976 Textiles – Woven fabrics – Measurement of width of pieces.
- ISO 3933 – 1976 Textiles – Woven fabrics – Measurement of length of pieces.
- ISO 5081 – 1977 Textiles – Woven fabrics – Determination of breaking strength and elongation (Strip method).

Comité Européen de Normalisation (CEN):

- Pr EN 14 (September '80) – Dimensions of bed blankets.

British Standards Institution (BSI):

- B.S. Handbook 11:1974 Methods of test for textiles – Method 4/88 'Determination of the number of threads per centimetre in woven fabrics'.

Standards Association of Australia (SAA):

- AS L 43 – 1965 Wool blankets for use in hospitals and kindred institutions.
- AS 2390 – 1980 'Textiles – Wool blankets for hospitals and kindred institutions' (supersedes AS L 43 – 1965).

*Copies of foreign standards may be purchased from IIRS which acts as agent for the sale of standards and other publications issued by the International Organization for Standardization (ISO) and those of the national standardizing bodies.

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