

BS 7505:2025



BSI Standards Publication

Elastic properties of flat, non-adhesive, extensible fabric bandages – Specification

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Summary of pages

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Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 May 2025. It was prepared by Technical Committee CH/205, *Non-active medical devices*. A list of organizations represented on this committee can be obtained on request to the committee manager.

Supersession

This British Standard supersedes [BS 7505:1995](#), which will be withdrawn on 31 October 2025.

Information about this document

This is a full revision of the document, and introduces the following principal changes:

- a simplified method of sampling is specified, where only three samples are tested compared to three or five in the previous edition;
- two new definitions are included for “processor” and “non-adhesive bandages”, which clarifies that cohesive bandages are within the scope of the document;
- corrections to pressure values in [Table 1](#) (which were out by a factor of 10 in the previous edition);
- a requirement to simulate the effect of clinical use when assessing washable bandages;
- additional labelling requirements for manufacturers of reusable bandages;
- expanded test report requirements; and
- a new rationale annex, which explains the history of the standard, explanations of the performance measures, and various other matters considered during the development of this document.

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Presentational conventions

The provisions of this document are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Where words have alternative spellings, the preferred spelling of the *Shorter Oxford English Dictionary* is used (e.g. “organization” rather than “organisation”).

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Compliance with a British Standard cannot confer immunity from legal obligations.

In particular, attention is drawn to the following specific regulation:

- Textile Products (Labelling and Fibre Composition) Regulations 2012 [1].

1 Scope

This British Standard specifies requirements for the elastic properties of flat, non-adhesive, extensible fabric bandages and classifies the bandages according to their function and performance using the test method described in this standard.

The requirements in this British Standard apply to flat, non-adhesive, extensible fabric bandages which are used for one or more of the following:

- dressing retention;
- the provision of support; and
- the application of compression.

NOTE 1 Although the application of a compression bandage is a major factor in the successful management of certain venous disorders, such bandages might cause serious injury if used inappropriately or if applied incorrectly.

This British Standard covers the basic description of the products and their performance requirements.

NOTE 2 Purchasing authorities, therefore, might need to include additional information.

This British Standard does not cover other product properties, such as colour, appearance and details of additional features.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes provisions, or limits the application, of this document.¹⁾ For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies

[BS EN ISO 139](#), *Textiles – Standard atmospheres for conditioning and testing*

[BS EN ISO 6330:2021](#), *Textiles – Domestic washing and drying procedures for textile testing*

[BS EN ISO 7500-1:2018](#), *Metallic materials – Calibration and verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Calibration and verification of the force-measuring system*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 differential extension factor (F)

difference, expressed as a percentage of the length at the working tension, between the length at the maximum tension and the length at the working tension

3.2 maximum tension (T_1)

tension (in newtons) to which the bandage is subjected during the test

NOTE 1 This can be calculated from the stated width and the value of the maximum tension per unit width $T_{\max}$ as given in [Table A.1](#).

NOTE 2 $T_{\max}$ is expressed in newtons per centimetre width. T_1 is calculated from $T_{\max}$ using the stated width.

¹⁾ Documents that are referred to solely in an informative manner are listed in the Bibliography.