

SRI LANKA STANDARD 137 : PART 3 : 1981

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**SPECIFICATION FOR
GREY COTTON YARN
PART 3—HOSIERY
(FIRST REVISION)**

BUREAU OF CEYLON STANDARDS

SPECIFICATION FOR GREY COTTON YARNS

PART 3 : HOSIERY (FIRST REVISION)

SLS 137:Part 3:1981

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PART 3 : HOSIERY
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FOREWORD

This Sri Lanka Standard Specification was prepared by the Drafting Committee on Grey Cotton Yarns. It was approved by the Textiles Divisional Committee of the Bureau of Ceylon Standards and was authorized for adoption and publication by the Council of the Bureau on 1981-01-29.

This standard is based on CS 137 which is withdrawn on the date of publication of this standard.

CS 137 covered requirements of grey cotton yarn intended for use in handloom, powerloom and hosiery industries. In the present revision it is intended to give requirements in separate standards in order to have more comprehensive standards to suit the needs of each industry. Revised standards for powerloom and handloom yarn have already been prepared and are available as SLS 137:Part 1 and Part 2.

This standard gives requirements for grey cotton yarn intended for use by the hosiery industry. The yarn strength index values have been revised and maximum linear irregularity values are specified.

All standard values given in this specification are in SI units. However, English cotton count equivalents for linear density in tex values are given in an appendix for guidance.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or observation shall be rounded off in accordance with CS 102. The number of figures to be retained in the rounded off value shall be the same as that of the specified value in this standard.

In the preparation of this standard assistance derived from publications of the Indian Standards Institution, American Society for Testing and Materials and Zellweger Uster Ltd. is gratefully acknowledged.

1 SCOPE

This specification covers the requirements of grey cotton yarns intended for use in hosiery.

2 REFERENCES

This standard makes reference to the following standards.

- CS 19 Designation of the structure of yarn
- SLS 20 Method for determination of the size of yarns (First Revision)
- SLS 23 Twist in yarns - Direct counting method (First Revision)
- CS 102 Presentation of numerical values
- SLS 428 Random sampling method

3 DEFINITIONS

For the purpose of this standard, the following definitions shall apply :

- 3.1 **nep (cotton yarn)** : A defect in a yarn characterized by a small knot of entangled fibres.
- 3.2 **skein** : A continuous length of yarn measuring 100 m in the form of a coil made on a 1 m girth reel.
- 3.3 **skein breaking load** : The breaking load of a skein determined by testing on a pendulum type testing machine the rate of traverse being 300 ± 15 mm/min.
- 3.4 **slub (bunch, slug)** : A defect in a yarn characterized by a segment not over 6 mm in length that shows an abrupt increase in diameter caused by more fibres matted in this particular place.
- 3.5 **snarl** : A short length of yarn which has twisted on itself due to lively twist.
- 3.6 **tex** : The mass in grams of 1 kilometre of yarn.
- 3.7 **thick place** : A defect in a yarn, extending for 6 mm or more characterized by a diameter greater than that of the adjoining segments; the unevenness is normally caused by a greater number of fibres per yarn cross-section than usual.
- 3.8 **thin place** : A defect in a yarn characterized by a segment that is substantially (at least 25 per cent) smaller in diameter than the average diameter of the yarn. A thin place may be of any length.