

SRI LANKA STANDARD 115 PART 1 : 2009
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SPECIFICATION FOR
COCONUT FIBRE (COIR FIBRE)
PART 1: BROWN FIBRE AND MIXED FIBRE
(Second Revision)

SRI LANKA STANDARDS INSTITUTION

Sri Lanka Standard
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SLS 115 Part 1: 2009

Gr. 8

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FOREWORD

This Sri Lanka Standard Specification was approved by the Sectoral Committee on Textiles, Clothing and Leather and was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 2009-03-30.

This specification was first published in 1971 and revised in 1981. Taking in to consideration the new development, a revision of this specification was considered necessary. In this second revision, technological advances made in the processing of coconut fibre have been given due consideration. In the preparation of this standard title and scope of the standard were extended to cover all the types of brown fibre and mixed fibre.

Coir fibre is one of the important items exported from Sri Lanka. One of broad objective of this standard will be of help in promoting export of this product. This specification prescribes the requirements for brown coir fibre types and mixed fibre for different end uses.

This specification is one of the series of Sri Lanka Standard relating to coconut fibres. Other standard in the series is Part 4 Retted white fibre.

All values given in this specification are in SI units.

For the purpose of deciding whether a particular requirement of this specification is complied with the final value, observed or calculated, expressing the result of a test or an analysis, shall be rounded off in accordance with **SLS 102**. The number of significant places retained in the rounded off value shall be the same as that of the specified value in the specification.

In the preparation of this standard, the assistance derived from the following publication is gratefully acknowledged.

IS 9308 (Part 1 to 3): 1987 Indian Standard Specification for Mechanically extracted Coir fibres

1 SCOPE

This specification prescribes the requirements and methods of sampling and test for brown coir fibre and mixed coir fibre.

2 REFERENCES

- | | |
|----------------|---|
| SLS 16 | Standard atmospheres for conditioning and testing of textiles |
| SLS 102 | Rules for rounding of numerical values |
| SLS 428 | Random sampling methods |

3 DEFINITIONS

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

3.1 brown fibre : Fibre extracted from soaked matured brown husk of coconut.

3.1.1 bristle fibre : *Average length of the fibres which are 135 mm or more in length.*

3.1.1.1 Non hackled Bristle fibre 1 – Tie : Bundle of fibres, with one knot before combing .

3.1.1.2 Hackled Bristle fibre 2 - Tie : Bundle of fibres, with two knots after combing.

3.1.1.3 Hackled Bristle fibre 3 – Tie : Bundle of fibres, with three knots after combing.

3.1.2 omat fibre : *Average length of the fibres which are between 70 mm and 134 mm in length*

3.1.3 mattress fibre : *Average length of the fibres which are between 30 mm and 69 mm in length*

3.2 mixed fibre : Fibre extracted from matured green husk or brown husk of coconut.

3.3 impurities : Anything other than coir (including husk pieces, pith and foreign particles.)

3.3.1 husk pieces : Thick fibrous mesocarp greater than 3 mm in thickness and the bundles of fibre which are not properly separated and giving a rigid structure.

3.3.2 pith : Binding material of coir fibre found in the mesocarp resulted as by product of coir fibre extraction process.

3.3.3 foreign particles : Anything other than extractives of coconut husk.

4 TYPES

4.1 Brown fibre

4.1.1 Bristle fibre

4.1.1.1 Non hackled Bristle fibre 1 - Tie

4.1.1.2 Hackled Bristle fibre 2 - Tie

4.1.1.3 Hackled Bristle fibre 3 - Tie