

Method of test for

Determination of breaking tenacity of flat bundles of cotton fibres

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- London Transport Executive
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- Cotton Silk and Man-made Fibres Research Association
- Manchester Chamber of Commerce Testing House
- University of Leeds
- Wira
- Individual companies

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Foreword

This British Standard implements International Standard ISO 3060, “*Cotton fibres: Determination of breaking tenacity of flat bundles*” of the International Organization for Standardization (ISO).

It is difficult and time consuming to estimate the average breaking tenacity of samples of cotton from tests on individual fibres. For both commercial and technical purposes, quicker estimates may be obtained from determinations made on flat bundles of parallel fibres. In this procedure, short fibres are combed out and the measured fibre strength corresponds with the breaking strength of the longer fibres in the sample.

The bundles of fibres may be secured by clamps which are either in close contact (zero gauge length) or separated to give a specified nominal gauge length. Fibre strength testing at zero gauge length is current commercial practice, although some investigations suggest that tests at a gauge length of 3.2 mm are more closely related to the tenacity of many classes of cotton yarn.

International Calibration Cotton Standards for zero gauge and national Calibration Cotton Standards for 3.2 mm gauge have been established to enable different operators to adjust their personal levels of testing to an agreed common level. These standards may also be used by operators to adjust the level of test results obtained from measurements made on instruments with different rates of loading to the agreed level for this standard.

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Summary of pages

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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.