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**SANS 1833:1977**

Edition 1 and ISO amdt 1

**ISO 1833:1977**

Edition 2 and amdt 1

## **SOUTH AFRICAN NATIONAL STANDARD**

### **Textiles — Binary fibre mixtures — Quantitative chemical analysis**

This national standard is the identical implementation of ISO 1833:1977 and amendment 1 and is adopted with the permission of the International Organization for Standardization.

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**SANS 1833:1977**

Edition 1 and ISO amdt 1

**ISO 1833:1977**

Edition 2 and amdt 1

**Table of changes**

<b>Change No.</b>	<b>Date</b>	<b>Scope</b>
ISO amdt 1	1980	Amended to replace reagents described in the clause formic acid/zinc chloride reagent, to change the temperature of the heating apparatus described in the clause heating apparatus, to modify the procedure described in test procedures for certain types of modal fibres which are difficult to dissolve and to change the value of d for cotton in calculation and expression of results.

**Abstract**

Contains methods for the quantitative chemical analysis of various binary mixtures of fibres. The methods given are applicable in general to fibres in any textile form. Where certain textile forms are excepted, these are listed in the "field of application" clause of the individual method.

**Keywords**

analysis, binary fibres, chemical analysis and testing, quantitative analysis, testing, textile fibres, textiles.

**National foreword**

This South African standard was approved by National Committee StanSA SC 5110.04C, *Textile test methods – Chemical analysis*, in accordance with procedures of Standards South Africa, in compliance with annex 3 of the WTO/TBT agreement.

This edition is technically identical to SABS ISO 1833:1977, with the edition of ISO amendment 1



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# Textiles — Binary fibre mixtures — Quantitative chemical analysis

## AMENDMENT 1

Amendment 1 to International Standard ISO 1833-1977 was developed by Technical Committee ISO/TC 38, *Textiles*, and was circulated to the member bodies in November 1978.

It has been approved by the member bodies of the following countries :

Australia	Germany, F. R.	Romania
Brazil	Ghana	South Africa, Rep. of
Bulgaria	Hungary	Spain
Canada	India	Sweden
Cyprus	Israel	Switzerland
Czechoslovakia	Japan	Turkey
Denmark	Korea, Rep. of	United Kingdom
Egypt, Arab Rep. of	Mexico	USA
Finland	New Zealand	USSR
France	Poland	Yugoslavia

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Belgium  
Italy  
Netherlands

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Sub-clause 5.1 : Add at the end of the sub-clause the following sentences :

"However, for certain types of modal fibre which are difficult to dissolve, it is possible to repeat the procedure modified as described in 5.5. This procedure is not always applicable to mixtures containing cotton which has been mercerised".

Sub-clause 5.3.1 : Replace the first paragraph by the following text :

"5.3.1 Formic acid/zinc chloride. Prepare a solution

containing 20 g of anhydrous (fused) zinc chloride and 68 g of anhydrous formic acid {or the equivalent quantity of aqueous formic acid [85 to 98 % (m/m)]}, made up to 100 g with water.

Attention is drawn to 1.3, as the purity of these reagents is essential in this method."

Sub-clause 5.4.2 : Replace this sentence by the following text :

"5.4.2 Heating apparatus, suitable for maintaining the temperature at  $40 \pm 2$  °C (or  $70 \pm 2$  °C if the high temperature is used)."

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Sub-clause 5.5 : Add the following text between the third and fourth sentences of the third paragraph :

“(For certain modal fibres for which the procedure is not suitable, repeat the determination using a new specimen but maintain the temperature of the reagent at  $70 \pm 2$  °C for a period of  $20 \pm 1$  min. Rinse with a further 20 ml of

reagent, preheated to 70 °C, and then wash the crucible and residue thoroughly with water also at 70 °C.)”

Sub-clause 5.6 : Add at the end of the sub-clause the following sentence :

“(If the high temperature procedure is used, the value of  $d$  is 1,03 for cotton.)”

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**INTERNATIONAL STANDARD**



**1833**

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**Textiles — Binary fibre mixtures — Quantitative chemical analysis**

*Textiles — Mélanges binaires de fibres — Analyse chimique quantitative*

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