

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 3
to
AS/NZS 4447:1997
Wool—IWTO Core Test Regulations

REVISED TEXT

The 1997 edition of AS/NZS 4447 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Page 1, Contents, Clauses 3.8 and 3.10 and footnotes to Page 18. The amendments are identical with and reproduced from the IWTO amendment issued June, 1998.

Published on 5 March 1999.

Approved for publication in New Zealand on behalf of the Standards Council of New Zealand on 9 November 1998.

AMDT
No. 3
MAR.
1999

Page 1 Last paragraph

Delete the existing paragraph and *substitute* the following:

The current complete Standard was reprinted to include all amendments approved up to and including the IWTO Meeting, Nice 1997.

AMDT
No. 3
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1999

Pages 2, 3 and 4 Contents

Delete the Contents and *replace* with the following:

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1999

IWTO CORE TEST REGULATIONS

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(Date of Issue: June, 1998)

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Page 18 Clause 3.8

Delete the Clause and replace with the following:

3.8 Japanese Clean Scoured Yield**

This is derived from Wool Base, as defined in Section 3.1 above, according to the following formula:

$$\begin{aligned} \text{Japanese Clean Scoured Yield} &= \text{Wool Base} \times \frac{116}{98.5} \\ &= \text{Wool Base} \times 1.1777 \end{aligned}$$

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Page 18 Clause 3.10

Delete the Clause and replace with the following:

3.10 Australian Carbonising Yield***

This is derived from Wool Base and Vegetable Matter Base as defined in Section 3.1 above, according to the following regression equation:

$$\text{Australian Carbonising Yield} = 1.1972 \times (\text{Wool Base}) + 0.162 \times (\text{VMBase}) - 5.12$$

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Page 18 Footnotes

Delete the footnotes and *replace* with the following:

- * This represents **Maximum Scoured Yield** at the given regain, is without allowances for processing loss in commercial scouring and incorporates the standard ash and alcohol extractives (see 3.2). It may therefore differ from the "clean scoured" yield defined in Article 16 of the IWTO Blue Book.
 - ** This calculation is based on a commercial allowance of 1.5% for ethyl alcohol and ash. This allowance is cited in the Japanese Industrial Standards.
 - *** This calculation is accepted by IWTO on a trial basis and will be considered as an accepted IWTO procedure in the light of trade reaction and experience.
-

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 2
to
AS/NZS 4447:1997
Wool—IWTO Core Test Regulations

REVISED TEXT

The 1997 edition of AS/NZS 4447 is amended as follows; the amendment(s) should be inserted in the appropriate place.

SUMMARY: This Amendment applies to the Preface, Pages 1 and 2, Clauses 1.2.1, 1.3, 1.4.7, 1.4.8, 4.1 and 4.2.2

Published on 5 August 1998.

Approved for publication in New Zealand on behalf of the Standards Council of New Zealand on 12 June 1998.

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No. 2
AUG.
1998

Page ii Preface

Delete existing Preface and substitute the following:

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TX/12 on Wool. It is identical with and has been reproduced from the IWTO *Core Test Regulations*. In Australia, it is proposed that this Standard runs concurrently with AS 1980, *Wool—Core sampling of raw wool in bales* and AS 2274, *Wool—Requirements for the issue of a test result for raw wool* for two years following the publication of this Standard, when AS 1980 and AS 2274 will be proposed for withdrawal.

The objective of this Standard is to provide the wool industry with technical requirements for sampling of raw wool in bales by coring methods, for determining yield and some wool characteristics in a lot or consignment, including requirements for the issue of a test certificate and the checking and reissue of certificates.

The source text should be modified as follows:

- (a) *Substitute* the word 'shall' for the word 'must', wherever it appears.
- (b) *Clause 1.1 Delete* the title 'Arbitration Agreement and Other International and Agreements' and *substitute* 'Arbitration Agreement and Other International Decisions and Agreements'.
- (c) *Clause 1.2.1 For* clarity of meaning, the Clause should read as follows:

1.2.1 IWTO Test Certificate A Certificate resulting from the testing of core samples, drawn in accordance with the IWTO Core Test Regulations, and tested in accordance with the methods coded IWTO-19 and/or IWTO-28, IWTO-12, or IWTO-47, as approved by IWTO. Where individually tested Classed Grower Lots are amalgamated for the specific purpose of preparing Objectively Matched Lots; or where individually tested Classed Grower Lots are amalgamated with one tested

Interlot which comprises a maximum of 4 single bale Classed Grower Lots amalgamated for the specific purpose of preparing Objectively Matched Interlots for sale, such a Certificate may be issued only as agreed by IWTO and in accordance with specific restrictions defined by a National Wool Selling Organisation, a National Committee of IWTO or in nationally agreed Wool Selling Regulations.

- (d) *Clause 1.2.3, 1st paragraph* Delete the word 'circumstances' in the last line of the paragraph and *substitute* the word 'circumstances'.
- (e) In Appendices 1, 2 and 3 *insert* the word 'normative' beneath the titles of Appendix 1 and Appendix 3, and the word 'informative' beneath the title of Appendix 2.

References to IWTO Standards should be replaced by equivalent Australian/New Zealand Standards, as follows:

<i>IWTO Standard</i>	<i>Australian/New Zealand Standard</i>
IWTO	AS/NZS
12 Measurement of the mean and distribution of fibre diameter using the Sirolan-Laserscan Fibre Diameter Analyser	—
27 Guide for the presentation of IWTO specifications of test methods and test methods under examination	—
19 Determination of wool base and vegetable matter base	1134 Wool—Determination of wool base and vegetable matter base of core samples of raw wool
28 Determination by the Airflow Method of the mean fibre diameter of core samples of raw wool	1133 Wool—Determination by the Airflow Method of the mean fibre diameter of core samples of raw wool
31 Calculation of IWTO combined certificates for yield and mean fibre diameter of raw wool in deliveries	1362 Wool—Calculation of IWTO combined certificates for yield and mean fibre diameter of raw wool in deliveries
47 Measurement of the mean and distribution of fibre diameter of wool using an optical fibre diameter analyser (OFDA)	—

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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1998

Page 1 Last paragraph, as amended by Amendment 1:1997

Delete the existing paragraph and *substitute* the following:

The current complete revision was reprinted to include all amendments approved up to and including the IWTO Meeting, Boston 1997.

AMDT
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1998

Page 2 Third line, as amended by Amendment 1:1997

Delete '(Date of issue: November, 1996)' and *substitute* the following:

CONTENTS

(Date of Issue: November, 1997)

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1998

Page 6 Clause 1.2.1

Delete the Clause and Notes and *replace* with the following:

- 1.2.1 *IWTO Test Certificate*: A Certificate resulting from the testing of core samples, drawn in accordance with the IWTO Core Test Regulations, and tested in accordance with the methods coded IWTO-19 and/or IWTO-28, IWTO-12, or IWTO-47, as approved by IWTO. Where individually tested Classed Grower Lots are amalgamated for the specific purpose of preparing Objectively Matched Lots; or where individually tested Classed Grower Lots are amalgamated with one tested Interlot, which comprises a maximum of 4 single bale Classed Grower Lots, are amalgamated for the specific purpose of preparing Objectively Matched Interlots for sale, such a Certificate may be issued only as agreed by IWTO and in accordance with specific restrictions defined by a National Wool Selling Organisation, a National Committee of IWTO or in nationally agreed Wool Selling Regulations.

Note 1: *IWTO has established strict range limits for various levels of Yield, Vegetable Matter and Mean Fibre Diameter, which must always be applied to the individually tested components - not to any combination or average of them. The maximum lot size for an Objectively Matched Lot or Objectively Matched Interlot shall not exceed 30 bales. In addition, in the case of the Objectively Matched Interlot the number of bales represented by the Traditional Interlot component shall not exceed 67% of the total number of bales in the Objectively Matched Interlot.*

Note 2: *In each and every case where these limits are exceeded, the wool cannot be considered to be an Objectively Matched Lot or Objectively Matched Interlot and consequently, an IWTO Combined Certificate shall be issued.*

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AUG.
1998**Page 7 Clause 1.3***Delete the Clause and replace with the following:***1.3 Definitions of Wool Lots**

1.3.1 *Classed Grower Lot:* A lot of raw wool from an individual grower comprising bales classed from one clip.

Country of Origin	Certificate Identification Method	Wool Type	Wool Preparation Category
Australia	Certificate Symbol	All	P
New Zealand	Certificate Symbol	All	P
South Africa	Lot Number	Crossbred Producer	700-799
		Producer	2000-5999
		Ciskei Producer	6000-6999
		Producer Lox	7000-7999
		Lesotho Producer	8000-8299
		Lesotho Crossbred	8900-8999

1.3.2 *Interlot:* A lot of raw wool comprising bales from 2 or more Classed Grower Lots matched before testing, normally from different clips, the wool being from one country of origin. No rehandled or bulk classed wool is included.

Country of Origin	Certificate Identification Method	Wool Type	Wool Preparation Category
Australia	Certificate Symbol	All	I
New Zealand	Certificate Symbol	All	I
South Africa	Lot Number	Producer	1000-1999
		Lesotho	8300-8499

1.3.3 *Objectively Matched Interlot:* A lot of raw wool containing individually tested Classed Grower Lots and one individually tested Interlot comprising a maximum of 4 single bale Classed Grower Lots, matched after testing and certified only as agreed by IWTO and in accordance with the specific national restrictions referred to in 1.2.1, the wool being from one country of origin.

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Country of Origin	Certificate Identification Method	Wool Type	Wool Preparation Category
Australia	Certificate Symbol	All	N
New Zealand	Certificate Symbol	All	N

- 1.3.4 *Objectively Matched Lot:* A lot of raw wool comprising individually tested Classed Grower Lots exclusively, matched after testing and certified only as agreed by IWTO and in accordance with the specific national restrictions referred to in 1.2.1, the wool being from one country of origin.

Country of Origin	Certificate Identification Method	Wool Type	Wool Preparation Category
Australia	Certificate Symbol	All	M
New Zealand	Certificate Symbol	All	M

- 1.3.5 *Bulk Classed Lot (Quality Managed):* A lot of raw wool comprising bales containing wool blended from various sources, the wool being from one country of origin. The lot meets clip preparation guidelines specified by the appropriate National Committee of IWTO and has been prepared to a standard of quality management specified by the appropriate National Committee of IWTO.

Country of Origin	Certificate Identification Method	Wool Type	Wool Preparation Category
Australia	Certificate Symbol	All	Q

- 1.3.6 *Bulk Classed Lot:* A lot of raw wool comprising bales containing wool blended from various sources, the wool being from one country of origin. The lot meets clip preparation guidelines specified by the appropriate National Committee of IWTO.

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Country of Origin	Certificate Identification Method	Wool Type	Wool Preparation Category
Australia	Certificate Symbol	All	B
New Zealand	Certificate Symbol	All	B
South Africa	Lot Number	Producer	1-600
		Ciskei	601-699
		Crossbred	800-899
		Lesotho	8500-8899
		Transkei	9000-9199

- 1.3.7 *Delivery:* A bulk of raw wool covered by a single certificate. If previously untested, all bales are sampled and tested as a group. If the component lots have been tested individually, the test results may be combined in accordance with IWTO-31.

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Page 8 Clause 1.4.7

Delete the Clause and replace with the following:

- 1.4.7 Where an IWTO Certificate is required, the seller shall provide a declaration to the Test House stating the Wool Preparation Category for the wool types where a Wool Preparation Category is defined in Section 1.3.

The nature of the declaration shall be determined by the National Committee of the country in which the Test House is situated.

If the declaration for a lot is found to be incorrect, any IWTO Certificate issued by the Test House shall be reissued if correct information is available or otherwise cancelled.

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Page 9 Clause 1.4.8

Delete the Clause and replace with the following:

- 1.4.8 Where the test is being conducted in conjunction with grab sampling, the grab sample shall be taken prior to weighing for the core test. However, up to 1% of the nett greasy weight may be drawn from the lot after such bale weighing (e.g. for appraisal purposes), provided that such wool is drawn at random and that its weight is recorded by a party who is independent of the seller. (The Test House staff or accredited representatives of the Test House may be recognised for this purpose). A record of this weight shall be sent to the Test House, who will record it on the Core Test Certificate which must be recalculated and reissued to take account of the wool removed. If the weight of such samples exceeds 1% of the weight of the delivery at the time of core sampling, the Core Test Certificate(s) will become invalid.

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Page 19 Clause 4.1

Delete the Clause and replace with the following:

Identification and Description

All Certificates must show:

- (a) Number of bales sampled and tested.
- (b) Clear identification of the test lot and test method used, including IWTO Test Code Number.
- (c) Gross weight of test lot at time of coring.
- (d) Declared tare.
- (e) Weight of samples (if any) removed for appraisal after coring and weighing of the test lot.
- (f) Number of subsamples and/or test specimens tested*.
- (g) The nature of the raw wool if not greasy (e.g. scoured).
- (h) The wool preparation category as defined in Section 1.3, e.g. "Classed Grower Lot" and the appropriate symbol or lot number, e.g. "P" or "2000". In the case of IWTO Combination Certificates this may be reported as the appropriate symbol or lot number only.

In addition, IWTO Combined Certificates** must show:

- (i) Details of the tests on the separate components of the consignment, i.e. the number of bales, the Test House and the Test House reference number.

*Not required on IWTO Combined Certificates.

**See Section 4.2.4 for additional regulations relating to the issuing of a Combined Certificate (By Subtraction).

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AUG.
1998

Page 21 Note to Clause 4.2.2, as amended by Amendment 1:1997

Delete the Note and replace with the following:

NOTE: *All IWTO Combined Certificates for Mean Fibre Diameter must show the highest and lowest Mean Fibre Diameter of the individual Test Certificates forming the Combined Certificates. IWTO Combination Certificates for Mean Fibre Diameter must relate to tests from the same Test Method. For the duration of the above interim period, it is understood that the Airflow results shall remain the basis for trading.*

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1
to
AS/NZS 4447:1997
Wool—IWTO Core Test Regulations

REVISED TEXT

The 1997 edition of AS/NZS 4447 is amended as follows; the amendment(s) should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Page 1, Last Paragraph; Page 2, 3rd Line; Page 4, 4th and 5th Lines; Clause 4.2.2; Table 8; and Diagram 3/1996 (continued).

Published on 5 November 1997.

Approved for publication in New Zealand on behalf of the Standards Council of New Zealand on 6 October 1997.

AMDT
No. 1
NOV.
1997

Page 1 Last paragraph

Delete the existing paragraph and *substitute* the following:

The current complete revision was reprinted to include all amendments approved up to and including the IWTO Meeting, Nice 1996.

AMDT
No. 1
NOV.
1997

Page 2, 3rd Line

Delete (Date of Issue: November, 1996) and *substitute* the following:

(Date of Issue: May, 1997)

AMDT
No. 1
NOV.
1997

Page 4, 4th and 5th Lines

Delete the 4th and 5th Lines and *substitute* the following:

Table 8:	Minimum Number of Acceptable Subsample Results Required in an IWTO Certificate	1996
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AMDT
No. 1
NOV.
1997**Page 21, Clause 4.2.2***Delete the existing Clause and substitute the following:***4.2.2 Fibre Diameter**

All Certificates for Mean Fibre Diameter must show the IWTO Test Method used in the title, (e.g. Airflow), and the Mean Fibre Diameter (in micrometres). For certification according to IWTO-28, the use of 2 Airflow meters is mandatory.

The issue of any certified result for wool lots as defined in Clause 1.3 or Combined Certificates (either as an electronic transmission or Certificate) arising from the application of IWTO-12 (Laserscan) or IWTO-47 (OFDA) must be accompanied by the Mean Fibre Diameter measured by IWTO-28 (Airflow) appropriately identified. There may be differences between the measured Mean Fibre Diameter provided by the 3 different Test Methods, IWTO-28, IWTO-12, and IWTO-47. The requirement to provide the Airflow result together with a result from the application of IWTO-12 and IWTO-47 will be reviewed annually by the Commercial Regulations and Contracts Committee.

NOTE: *All IWTO Combined Certificates for Mean Fibre Diameter must show the highest and lowest Mean Fibre Diameter of the individual Test Certificates forming the Combined Certificates. IWTO Combined Certificates for Mean Fibre Diameter must relate to tests from the same Test Method. Unless otherwise stated the Airflow value will form the basis of the Contract.*

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1997

Page 45, Table 8/1995

Delete the existing Table and substitute the following:

Table 8/1996

TABLE 8

**Minimum Number of Acceptable Subsample Results Required
in an IWTO Certificate**

Origin	Classed Grower Lots	Deliveries, Interlots and Bulk Classed Lots
Australia	2*	2#
New Zealand	2*	2*
South Africa	2*	2#*
South America	2	3
Not Specified	3	3

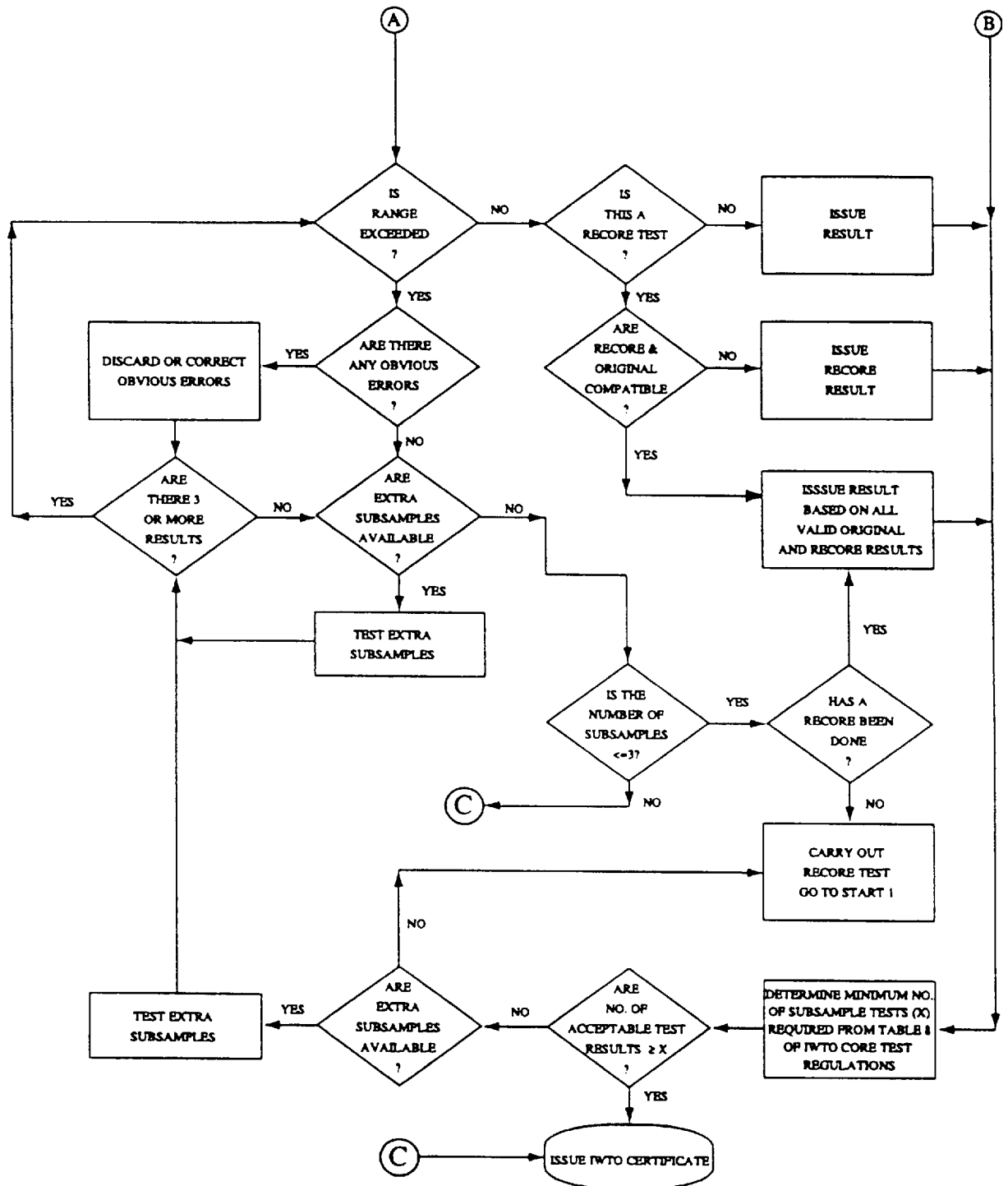
- # For 1, 2 and 3 bale lots, 2 subsamples are sufficient. For lots of 4 bales or more, a minimum of 3 subsamples must be tested.
- * If additional subsamples need to be tested in order to meet Range Test requirements, a minimum of 4 acceptable subsample results must be used. For 1, 2 and 3 bale lots, it is not necessary to test any additional subsamples provided that no obvious error exists.

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Page 53, Diagram 3/1996 (continued)

Delete the existing Diagram and substitute the following:

Diagram 3/1996 (continued)



AS/NZS 4447:1997

Australian/New Zealand Standard[®]

Wool—IWTO Core Test Regulations

[IWTO title: IWTO Core Test Regulations]

STANDARDS AUSTRALIA

STANDARDS NEW ZEALAND



Documents

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AS/NZS 4447:1997

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TX/12, Wool. It was approved on behalf of the Council of Standards Australia on 16 December 1996 and on behalf of the Council of Standards New Zealand on 6 December 1996. It was published on 5 February 1997.

The following interests are represented on Committee TX/12:

Australian Council of Wool Exporters
 Australian Testing Interests
 Australian Wool Exchange
 Australian Wool Research and Promotion Organisation
 CSIRO—Division of Wool Technology, Australia
 Department of Defence, Australia
 Lincoln University, New Zealand
 National Council of Wool Selling Brokers of Australia
 National Association of Testing Authorities, Australia
 New Zealand Council of Wool Exporters
 New Zealand Testing Interests
 New Zealand Wool Board
 New Zealand Woolbrokers Association
 Telarc, New Zealand
 University of New South Wales
 Wool Council of Australia
 Wool Textile Manufacturers of Australia
 Wool Research Organization of New Zealand
 Wool Scourers and Carbonisers Association of Australia

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 95370.

First published as AS/NZS 4447:1997.

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AS/NZS 4447:1997

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Wool—IWTO Core Test Regulations

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TX/12 on Wool. It is identical with and has been reproduced from the IWTO *Core Test Regulations*. In Australia, it is proposed that this Standard runs concurrently with AS 1980—Wool—Core sampling of raw wool in bales and AS 2274 Wool—Requirements for the issue of a test result for raw wool for two years following the publication of this Standard, when AS 1980 and AS 2274 will be proposed for withdrawal.

The objective of this Standard is to provide the wool industry with technical requirements for sampling of raw wool in bales by coring methods, for determining yield and some wool characteristics in a lot or consignment, including requirements for the issue of a test certificate and the checking and reissue of certificates.

The source text should be modified as follows:

- (a) *Substitute* the word 'shall' for the word 'must', wherever it appears.
- (b) *Subclause 1.1 Delete* the title 'Arbitration Agreement and Other International and Agreements' and *substitute* 'Arbitration Agreement and Other International Decisions and Agreements'.
- (c) *Subclause 1.2.3, 1st paragraph Delete* the word 'circumstances' in the last line of the paragraph and *substitute* the word 'circumstances'.
- (d) In Appendices 1, 2 and 3 *insert* the word 'normative' beneath the titles of Appendix 1 and Appendix 3, and the word 'informative' beneath the title of Appendix 2.

References to IWTO Standards should be replaced by equivalent Australian/New Zealand Standards, as follows:

<i>IWTO Standard</i>		<i>Australian/New Zealand Standard</i>	
IWTO		AS/NZS	
12	Measurement of the mean and distribution of fibre diameter using the Sirolan-Laserscan Fibre Diameter Analyser	—	
27	Guide for the presentation of IWTO specifications of test methods and test methods under examination	—	
19	Determination of wool base and vegetable matter base	1134	Wool—Determination of wool base and vegetable matter base of core samples of raw wool
28	Determination by the Airflow Method of the mean fibre diameter of core samples of raw wool	1133	Wool—Determination by the Airflow Method of the mean fibre diameter of core samples of raw wool
31	Calculation of IWTO combined certificates for yield and mean fibre diameter of raw wool in deliveries	1362	Wool—Calculation of IWTO combined certificates for yield and mean fibre diameter of raw wool in deliveries
47	Measurement of the mean and distribution of fibre diameter of wool using an optical fibre diameter analyser (OFDA)	—	

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

AUSTRALIAN/NEW ZEALAND STANDARD

Wool—IWTO Core Test Regulations

Original text adopted at the 37th International Wool Conference, Montreux, 1968.

Revised text prepared by the Raw Wool Certification Sub-committee and adopted at the 47th International Wool Conference, Munich 1978.

Modifications were approved by the Wool Committee in

- Paris, January, 1979
- Monaco, June, 1980
- Venice, June, 1982
- Paris, January, 1985
- Paris, January, 1986
- Ostend, June, 1986

An additional appendix was included in January 1987, and further updates in 1988 and 1989.

Modifications to Sections 1.0 and 5.0 adopted June 1991.

The current complete revision was reprinted to include all amendments approved up to and including the IWTO Meeting, Harrogate 1995.

IWTO CORE TEST REGULATIONS

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(Date of Issue: November, 1996)

	Year of Publication
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