

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Amendment No. 1
to
AS/NZS 3829:1998
Wool—IWTO Staple Test Regulations**

REVISED TEXT

The 1998 edition of AS/NZS 3829 is amended as follows; the amendment(s) should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Contents and Table 1 and is identical with and reproduced from IWTO Staple Test Regulations Update, January 1999.

Published on 5 June 1999.

Approved for publication in New Zealand on behalf of the Standards Council of New Zealand on 28 April 1999.

AMDT
No. 1
JUN.
1999

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IWTO STAPLE TEST REGULATIONS

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TABLE 1
Maximum Retest Range* between Two Staple Test Results

Parameter	Wool Type	Maximum Retest Range
Staple Length (mm)	Fleece	7 mm
Staple Length (mm)	Non-Fleece	8 mm
Staple Strength (N/ktex)	Fleece & Non-Fleece	8 N/ktex

* These values are derived from the true Maximum Probable Difference between 2 test results obtained using the procedures laid down in IWTO-0.

The application of Check Test procedures to a Mean Staple Strength test result is described below:

- (i) Assume
- | | | |
|-------------------|---|-----------|
| Original result | = | 42 N/ktex |
| Check Test result | = | 31 N/ktex |
- Then
- | | | |
|-----------------------|---|-----------|
| Original - Check Test | = | 42 - 31 |
| | = | 11 N/ktex |
| Maximum Retest Range | = | 8 N/ktex |

Difference exceeds Maximum Retest Range. The Original result (42 N/ktex) is discarded and the Check Test result (31 N/ktex) issued.

- (ii) Assume
- | | | |
|-------------------|---|-----------|
| Check Test result | = | 38 N/ktex |
|-------------------|---|-----------|
- Then
- | | | |
|-----------------------|---|----------|
| Original - Check Test | = | 42 - 38 |
| | = | 4 N/ktex |
| Maximum Retest Range | = | 8 N/ktex |

Difference is less than Maximum Retest Range. Combine Original and Check Test ((42 + 38)/2) and issue the combined result (40 N/ktex).

The application of Retest procedures to a Mean Staple Length test result for a Fleece sample is described below:

(i) Assume

Original result	=	65 mm
Retest result	=	70 mm

Then

Original - Retest	=	65 - 70
	=	5 mm
Maximum Retest Range	=	7 mm

Difference does not exceed Maximum Retest Range. The Original result (65 mm) is confirmed.

(ii) Assume

Original result	=	65 mm
Retest result	=	75 mm

Then

Original - Retest	=	65 - 75
	=	10 mm
Maximum Retest Range	=	7 mm

Difference exceeds Maximum Retest Range. Initiate a second Retest.

(a) Assume

Second Retest result	=	63 mm
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Then

Original - Second Retest	=	65 - 63
	=	2 mm
First Retest - Second Retest	=	75 - 63
	=	12 mm

The difference between the Original and the Second Retest results (2 mm) is less than the Maximum Retest Range and the difference between the First and Second Retests (12 mm) exceeds the Maximum Retest Range. The Original result (65 mm) is confirmed.

(b)	Assume		
	Second Retest result	=	77 mm
	Then		
	Original - Second Retest	=	65 - 77
		=	12 mm
	First Retest - Second Retest	=	75 - 77
		=	2 mm

The difference between Original and Second Retest results (12 mm) exceeds the Maximum Retest Range and the difference between the First and Second Retests (2 mm) does not exceed the Maximum Retest Range. Combine the First (75 mm) and Second (77 mm) Retest results and issue the Combined result (76 mm).

(iii)	(a) Assume		
	Second Retest result	=	53 mm
	Then		
	Original - Second Retest	=	65 - 53
		=	12 mm
	First Retest - Second Retest	=	75 - 53
		=	22 mm

Both differences exceed the Maximum Retest Range. Combine all 3 results $((65 + 75 + 53)/3 = 64 \text{ mm})$. The difference between the Combined and Original results (1 mm) is less than the Maximum Retest Range. The Original result (65 mm) is confirmed.

(b)	Assume		
	Second Retest Result	=	86 mm
	Then		
	Original - Second Retest	=	65 - 86
		=	21 mm
	First Retest - Second Retest	=	75 - 86
		=	11 mm

Both differences exceed the Maximum Retest Range. Combine all 3 results $((65 + 75 + 86)/3 = 75 \text{ mm})$. The difference between the Combined and Original results (10 mm) exceeds the Maximum Retest Range. The Combined result (75 mm) is issued by the Test House nominated in the Contract.

AS/NZS 3829:1998

AS/NZS 3829

Australian/New Zealand Standard™

Wool—IWTO Staple Test Regulations

[IWTO title: IWTO Staple Test Regulations (revised version)]

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AS/NZS 3829:1998

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 12 June 1998 and on behalf of the Council of Standards New Zealand on 12 June 1998. It was published on 5 August 1998.

The following interests are represented on Committee TX/12:

Australian Council of Wool Exporters
 Australian Wool Exchange
 Australian Wool Processors Council
 Australian Wool Research and Promotion Organisation
 CSIRO—Division of Wool Technology
 Department of Defence, Australia
 Inland Woolbrokers Association, Australia
 International Accreditation New Zealand
 Lincoln University, New Zealand
 National Association of Testing Authorities, Australia
 National Council of New Zealand Wool Interests
 National Council of Wool Selling Brokers of Australia
 New Zealand Council of Wool Exporters
 New Zealand Wool Board
 New Zealand Wool Brokers Association
 New Zealand Wool Testing Authority
 New Zealand Woollscourers Association
 Testing interests, Australia
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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 98110.

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AS/NZS 3829:1998

Australian/New Zealand Standard™

**Wool—IWTO Staple Test
Regulations**

First published as AS/NZS 3829:1998.

Published jointly by:

Standards Australia
1 The Crescent,
Homebush NSW 2140 Australia

Standards New Zealand
Level 10, Radio New Zealand House,
155 The Terrace,
Wellington 6001 New Zealand

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TX/12, Wool. It is identical to and reproduced from the *IWTO Staple Test Regulations*.

The objective of this Standard is to provide the wool industry with technical requirements for sampling and testing staples of greasy wool for the issue of IWTO Staple Test Certificates and IWTO Combined Staple Test Certificates.

For clarity of meaning, the source text should be modified 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.

As this Standard is reproduced from an international publication, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) Replace the word 'shall' with the word 'must', wherever it appears.

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

<i>Reference to IWTO Standard</i>		<i>Australian/New Zealand Standard</i>	
IWTO		AS/NZS	
7	Sub-sampling staples from grab samples	2721	Wool—Subsampling staples from grab samples
27	Guide for the presentation of IWTO specifications of test methods and test methods under examination	—	
30	Determination of staple length and staple strength	2810	Wool—Determination of staple length and staple strength
38	Method for grab sampling greasy wool from bales	1363 1363.1	Wool—Grab sampling—Greasy wool Part 1: Method for grab sampling greasy wool from bales
	IWTO Core Test Regulations	4447	Wool—IWTO Core Test Regulations

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