SOUTH QUALITY

PROFICIENCY TESTING PROVIDER

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ISO 6330

DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Program: SQ-1037.V4

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1. FOREWORD

This report summarizes the results of the **SQ-1037.V4** proficiency testing program on the determination of dimensional change (ISO 5077) of textile garments after domestic washing and drying. This program is conducted in a bilateral format, following the "split-sample" design described in clause A.4.2 of ISO/IEC 17043: 2023 (Alternative interlaboratory comparisons).

South Quality conducted the testing program in September 2026 with the aim of assessing the laboratory's ability to competently perform the designated tests.

2. ORGANIZATION

Program Coordinator:	Lic. Esther Casas
Assistant Technician:	Berenice Ferrel
Statistics:	Lic. Manuel Tozaki
Supervision:	Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is to determine the dimensional change of garments after domestic washing and drying, in accordance with the following standards:

Standard
ISO 6330: 2021 + ISO 5077: 2007

To verify this, batches of garment samples were selected.

Participants in this program have not been previously informed about the expected values or value ranges of the samples they receive.

4. PARTICIPANT

Company:	**Intertek Testing Services de México**
Laboratory:	**Intertek Testing Services de México**
Country:	Mexico
Client ID:	C100
Contact person:	Jacquelin Jiménez Quality Coordinator jacquelin.jimenez@intertek.com

5. HOMOGENEITY

Several batches were prepared identically by the staff at South Quality.

Subsequently, a homogeneity study was conducted with an ISO 17025 accredited laboratory.

The control process followed ISO 33405: 2024, clauses 7.4.1.1 / 7.4.1.2. Stratified random sampling was applied, and samples were selected using random number generation software.

The results of this test are presented below:

Size of each batch: **40 units** Tested samples from each batch: **10 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (W: 3G - 3 / DP: C)		
	BATCH: LT3818	BATCH: LT3819	BATCH: LT3820
Dimensional change	NO	YES	YES

Size of each batch: **40 units** Tested samples from each batch: **10 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (W: 3G - 3 / DP: C)		
	BATCH: LT4255	BATCH: LT4256	BATCH: LT4257
Dimensional change	YES	YES	NO

Samples for this program are taken from the selected batches identified as **LT3820** and **LT4256**.

For the indicated batches, the values determined in the homogeneity study are utilized as the assigned values.

The analysis of the test data indicated that the selected samples exhibited sufficient homogeneity for the program. Therefore, the results of participants identified as outliers cannot be attributed to sample variability.

6. SAMPLE INFORMATION

The following samples were sent for testing:

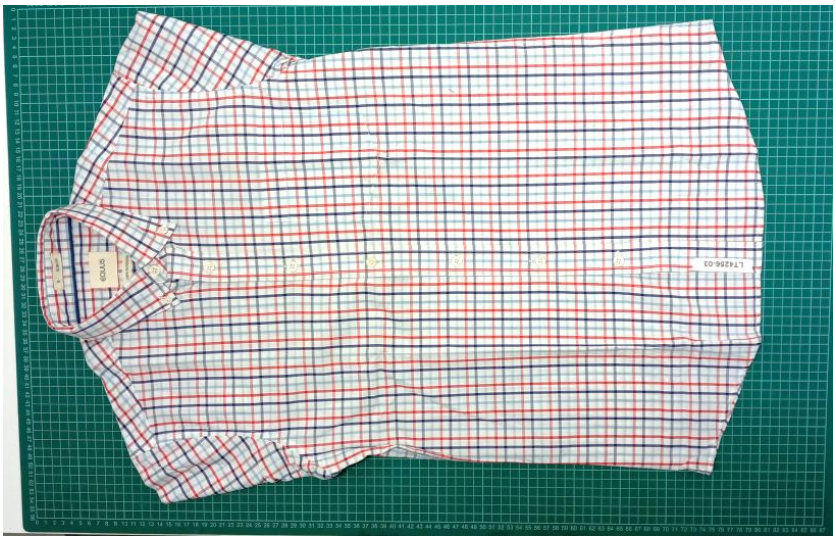
Batch:	LT3820
Sample ID:	07
Characteristics:	V-Neck Tee (Blue) - Size: Small

Batch:	LT4256
Sample ID:	03
Characteristics:	Slim Fit SS Plaid Shirt (W/R/B) - Size: Small

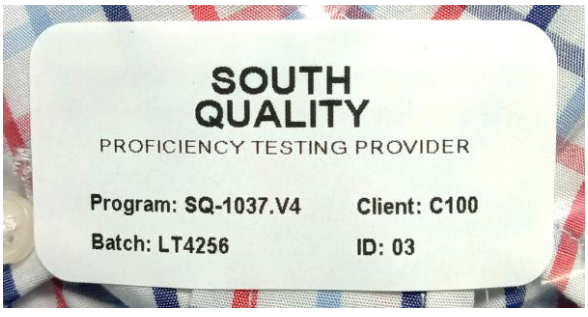
7. IMAGES

SAMPLES









8. ASSIGNED VALUES

BATCH	DIMENSIONAL CHANGE (%) (Standard deviation)				
LT3820	a) Length of neckband when garment is closed	b) Length from lowest point of armhole to bottom hem	c) Length of front	d) Length of center back	e) Length of underarm seam
	-4.5 (0.47)	-4.5 (0.43)	-4.0 (0.35)	-4.0 (0.33)	-7.0 (0.61)
	f) Width across back	g1) Width chest - half the girth measure	g2) Hem - half the girth measure	h) Width sleeve at right angles to sleeve length	i) Width of sleeve at bottom of cuff
	-0.5 (0.44)	-1.5 (0.56)	-1.5 (0.57)	-2.0 (0.42)	-3.5 (0.48)

BATCH	DIMENSIONAL CHANGE (%) (Standard deviation)				
LT4256	a) Length of neckband when garment is closed	b) Length from lowest point of armhole to bottom hem	c) Length of front	d) Length of center back	e) Length of underarm seam
	-	-0.5 (0.42)	-2.0 (0.36)	-0.5 (0.39)	-7.5 (0.71)
	f) Width across back	g1) Width chest - half the girth measure	g2) Hem - half the girth measure	h) Width sleeve at right angles to sleeve length	i) Width of sleeve at bottom of cuff
	-3.0 (0.49)	-3.0 (0.55)	-2.5 (0.57)	-3.0 (0.46)	-4.0 (0.43)

9. PARTICIPANT RESULTS (SEE APPENDIX B)

CODE	DIMENSIONAL CHANGE (%)				
LT3820-07	a) Length of neckband when garment is closed	b) Length from lowest point of armhole to bottom hem	c) Length of front	d) Length of center back	e) Length of underarm seam
	-5.0	-4.0	-4.0	-3.5	-7.0
	f) Width across back	g1) Width chest - half the girth measure	g2) Hem - half the girth measure	h) Width sleeve at right angles to sleeve length	i) Width of sleeve at bottom of cuff
	-0.5	-1.0	-1.0	-2.0	-3.5

CODE	DIMENSIONAL CHANGE (%)				
LT4256-03	a) Length of neckband when garment is closed	b) Length from lowest point of armhole to bottom hem	c) Length of front	d) Length of center back	e) Length of underarm seam
	-	-0.5	-1.5	-0.5	-8.5
	f) Width across back	g1) Width chest - half the girth measure	g2) Hem - half the girth measure	h) Width sleeve at right angles to sleeve length	i) Width of sleeve at bottom of cuff
	-2.5	-2.5	-2.5	-3.5	-4.5

10. STATISTICS

The results must be treated as quantitative.

According to B.4.1.3 of ISO 17043 the appropriate technique is to compare participant results with the assigned values. The results can be compared using z **score.**

$$z = \frac{x - X}{\hat{\sigma}}$$

x is the participant's result

X is the assigned value

$\hat{\sigma}$ is the standard deviation

The performance evaluation of each sample is carried out with the following criteria:

$\|z\| \leq$ **2.0**	**indicates "satisfactory" performance and generates no signal;**
2.0 $< \|z\| <$ **3.0**	**indicates "questionable" performance and generates a warning signal;**
$\|z\| \geq$ **3.0**	**indicates "unsatisfactory" performance and generates an action signal;**

11. EVALUATION OF PERFORMANCE

BATCH: LT3820				
Dimension analyzed	DIMENSIONAL CHANGE (%)		| z score |	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
a) Length of neckband when garment is closed	-5.0	-4.5	**1.06**	**SATISFACTORY**
b) Length from lowest point of armhole to bottom hem	-4.0	-4.5	**1.16**	**SATISFACTORY**
c) Length of front	-4.0	-4.0	**0.00**	**SATISFACTORY**
d) Length of center back	-3.5	-4.0	**1.52**	**SATISFACTORY**
e) Length of underarm seam	-7.0	-7.0	**0.00**	**SATISFACTORY**
f) Width across back	-0.5	-0.5	**0.00**	**SATISFACTORY**
g1) Width chest - half the girth measure	-1.0	-1.5	**0.89**	**SATISFACTORY**
g2) Hem - half the girth measure	-1.0	-1.5	**0.88**	**SATISFACTORY**
h) Width sleeve at right angles to sleeve length	-2.0	-2.0	**0.00**	**SATISFACTORY**
i) Width of sleeve at bottom of cuff	-3.5	-3.5	**0.00**	**SATISFACTORY**

BATCH: LT4256				
Dimension analyzed	DIMENSIONAL CHANGE (%)		| z score |	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
b) Length from lowest point of armhole to bottom hem	-0.5	-0.5	**0.00**	**SATISFACTORY**
c) Length of front	-1.5	-2.0	**1.39**	**SATISFACTORY**
d) Length of center back	-0.5	-0.5	**0.00**	**SATISFACTORY**
e) Length of underarm seam	-8.5	-7.5	**1.41**	**SATISFACTORY**
f) Width across back	-2.5	-3.0	**1.02**	**SATISFACTORY**
g1) Width chest - half the girth measure	-2.5	-3.0	**0.91**	**SATISFACTORY**
g2) Hem - half the girth measure	-2.5	-2.5	**0.00**	**SATISFACTORY**
h) Width sleeve at right angles to sleeve length	-3.5	-3.0	**1.09**	**SATISFACTORY**
i) Width of sleeve at bottom of cuff	-4.5	-4.0	**1.16**	**SATISFACTORY**

12. CONCLUSIONS

The overall performance on this **SQ-1037.V4** program from the participant laboratory **Intertek Testing Services de México** is **SUFFICIENT** based on expected results.

The criteria used for evaluating the overall performance are as follows:

- **SUFFICIENT** performance: No unsatisfactory/questionable results were obtained.
- **ALMOST SUFFICIENT** performance: No unsatisfactory results were obtained, but one questionable result was found.
- **INSUFFICIENT** performance: An unsatisfactory result or two questionable results were obtained.

APPENDIX A

INSTRUCTIONS

SOUTH QUALITY
PROFICIENCY TESTING PROVIDER

INSTRUCTIONS

PROGRAM:	Domestic washing and drying procedures for textile testing
CODE:	SQ-1037
VERSION:	4
STANDARD:	ISO 6330
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

1 - **General**

This document serves as a guide for managing the results of the **SQ-1037.V4** program.

2 - **Standard**

ISO 6330: 2021

3 - **Tests involved**

TEST
Determination of dimensional change (ISO 5077)

4 - **Samples**

CODE	SAMPLE	QUANTITY
LT3820-07	V-Neck Tee (Blue) - Size: Small	1
LT4256-03	Slim Fit SS Plaid Shirt (W/R/B) - Size: Small	1

5 - **Notes**

a) Being a bilateral program, there is no deadline for submitting results.
b) The participant must submit the results using the usual report employed by their laboratory.
c) The samples are to be handled as routine lab samples, with all testing, documentation, and reporting adhering to **ISO 6330**.
d) Samples must be retained until the end of the program, which concludes with the submission of the final report.
e) To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.

6 - **Test conditions**

PARAMETER	CONDITION
Washing procedure	3G - 3 cycles
Drying procedure	C - Flat dry

PHOTOGRAPHS

APPENDIX B

PARTICIPANT RESULTS (TR # MEXT26007867)

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Report Number : MEXT26007867

Sample as received A



Intertek Testing Services de México, S.A. de C.V.
Poniente 134 No. 660, Col. Industrial Vallejo, Del. Azcapotzalco, C.P. 2300, Ciudad de México
Tel. +52 (55) 5063 7190, Tel. +52 (55) 5998 0900

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Report Number : MEXT26007867

Sample as received B



intertek
Total Quality. Assured.

TEST REPORT

NUMBER : MEXT26007867
DATE : 09-Sep-2026

APPLICANT : **Intertek Testing Services de Mexico, S.A. de C.V.**
Poniente 134 No. 660, Col. Industrial Vallejo, Del.
Azcapotzalco, D.F., 02300, México

Sample Description	:	A) V-Neck Tee (Blue) - Size: Small B) Slim Fit SS Plaid Shirt (W/R/B) - Size: Small
Fiber Content	:	Not Submitted
Color	:	(A)V-Neck Tee (Blue), (B)Slim Fit SS Plaid Shirt (W/R/B)
Style No.	:	LT3820-07 LT4256-03
Order No./PO No.	:	-
Buyer Name	:	SELF REFERENCE
Other Information	:	SQ-1037 Versión 4
Sample Received Date	:	03 Sep 2026
Final Confirmation Received Date	:	-

TEST CONDUCTED : AS PER THE REQUEST OF THE APPLICANT. FOR FURTHER DETAILS PLEASE REFER TO ENCLOSED PAGE(S)

AUTHORIZED BY
FOR Intertek Testing Services de México, S.A. de C.V. [MX CG DF SOFTLINES]

OSCAR PUEBLITA ORTEGA
SUBGERENTE LABORATORIO

intertek
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TEST REPORT

NUMBER : MEXT26007867
DATE : 09-Sep-2026

CONCLUSION :

	(A)	(B)
Determination of Dimensional Change in Washing and Drying	*	*

Note: P = Pass F = Fail
* = Requirement Not Provided NA = Not Applicable # = See Test

NOTE :
Specimens were conditioned according to standard practice for conditioning and testing ISO 139 textiles (20 +/-2°C 65 +/-4% relative humidity) as appropriate.

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TEST REPORT

NUMBER : MEXT26007867
DATE : 09-Sep-2026

TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

1. Determination of Dimensional Change in Washing and Drying
ISO 5077 :2007
A)
Type A washing machine, IEC A detergent
Specimen weight: 0.124 kg
Additional load weight: 1.876 kg
Load fabric type used: I
Number of specimens: 1
Washing and drying process: 3G C
Number of wash and dry cycles: 3
Test date: 2026/09/09

B)
Type A washing machine, IEC A detergent
Specimen weight: 0.154 kg
Additional load weight: 1.846 kg
Load fabric type used: I
Number of specimens: 1
Washing and drying process: 3G C
Number of wash and dry cycles: 3
Test date: 2026/09/09

(A) Requeriment

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TEST REPORT

NUMBER : MEXT26007867
DATE : 09-Sep-2026

	Original (cm)	After 3rd Wash	Dimensional change (%)
a) Length of neckband when garment is closed	370	352	-5.0
b) Length from lowest point of armhole to bottom hem	425	407	-4.0
c) Length of front	750	720	-4.0
d) Length of center-back	752	727	-3.5
e) Length of underarm seam	100	93	-7.0
f) Width across back	404	403	-0.5
g1) Width chest (half the girth measure)	497	491	-1.0
g2) Hem (half the girth measure	493	487	-1.0
h) Width sleeve at right angles to sleeve length	420	412	-2.0
i) Width of sleeve at bottom of cuff	380	366	-3.5

(B) Requeriment

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	Original (cm)	After 3rd Wash	Dimensional change (%)
b) Length from lowest point of armhole to bottom hem	463	462	-0.5
c) Length of front	717	706	-1.5
d) Length of center-back	683	682	-0.5
e) Length of underarm seam	70	64	-8.5
f) Width across back	391	382	-2.5
g1) Width chest (half the girth measure)	523	510	-2.5
g2) Hem (half the girth measure	513	499	-2.5
h) Width sleeve at right angles to sleeve length	376	362	-3.5
i) Width of sleeve at bottom of cuff	344	328	-4.5

Specimen before wash Front (A)



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Specimen before wash Back (A)



Specimen after wash Front (A)



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Specimen after wash Back (A)



Specimen before wash Front (B)



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Specimen before wash Back (B)



Specimen after wash Front (B)



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TEST REPORT

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DATE : 09-Sep-2026

Specimen after wash Back (B)



END OF THE TEST REPORT

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