

REPORT No 11949

Date of issue: July 27, 2026

Status: FINAL REPORT

FOOTWEAR INDUSTRY - SATRA TEST METHODS - Program: SQ-6058.V14

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1. FOREWORD

This report summarizes the results of the **SQ-6058.V14** proficiency testing program on the validation of SATRA test methods. 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 June 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 validate the following test methods:

METHOD	PARAMETERS TO DETERMINE
SATRA TM52 - March 2018	Strength of slide fastener pullers
SATRA TM134 - October 1998 (2010)	Density of materials by volume displacement
SATRA TM174 - November 2016	Abrasion resistance

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 MEXICO**
 Laboratory: SOFTLINES LEÓN
 Country: Mexico
 Client ID: C100
 Contact person: Ing. Octavio Muñoz Jiménez
 Coordinador de Laboratorio Pruebas Físicas
octavio.muniz@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: **100 units**

Tested samples from each batch: **20 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (SATRA TM52)		
	BATCH: LMI2234	BATCH: LMI2235	BATCH: LMI2236
Strength of slide fastener pullers	NO	YES	YES

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (SATRA TM52)		
	BATCH: LMI2248	BATCH: LMI2249	BATCH: LMI2250
Strength of slide fastener pullers	YES	YES	YES

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (SATRA TM52)		
	BATCH: LMI2268	BATCH: LMI2269	BATCH: LMI2270
Strength of slide fastener pullers	YES	NO	YES

Size of each batch: **50 units**

Tested samples from each batch: **10 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (SATRA TM134)		
	BATCH: LMI2420	BATCH: LMI2421	BATCH: LMI2422
Density of materials by volume displacement	YES	NO	YES

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (SATRA TM134)		
	BATCH: LMI2684	BATCH: LMI2685	BATCH: LMI2686
Density of materials by volume displacement	YES	YES	NO

Size of each batch: **50 units**

 Tested samples from each batch: **10 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (SATRA TM174)		
	BATCH: LMI2088	BATCH: LMI2089	BATCH: LMI2090
Abrasion resistance	YES	YES	NO

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (SATRA TM174)		
	BATCH: LMI2447	BATCH: LMI2448	BATCH: LMI2449
Abrasion resistance	YES	YES	YES

Samples for this program are taken from the selected batches identified as **LMI2089**, **LMI2235**, **LMI2249**, **LMI2270**, **LMI2420**, **LMI2449**, and **LMI2685**.

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:	LMI2089
Sample ID:	3A
Characteristics:	Black/brown outsole - Size 40 - 1 unit

Batch:	LMI2235
Sample ID:	09
Characteristics:	Salmon plastic slide fastener - 10 cm - 6 units

Batch:	LMI2249
Sample ID:	05
Characteristics:	Burgundy metal slide fastener - 10 cm - 6 units

Batch:	LMI2270
Sample ID:	10
Characteristics:	Green plastic slide fastener - 16 cm - 6 units

Batch:	LMI2420
Sample ID:	4A
Characteristics:	Black outsole - Size 35 - 1 unit

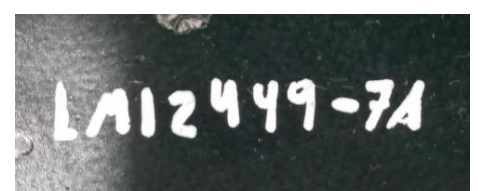
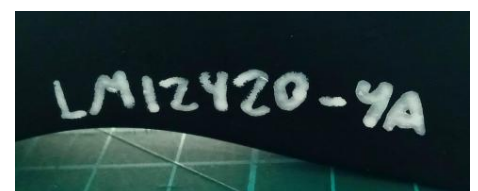
Batch:	LMI2449
Sample ID:	7A
Characteristics:	Black outsole - Size 40 - 1 unit

Batch:	LMI2685
Sample ID:	9A
Characteristics:	Black outsole - Size 35 - 1 unit

7. IMAGES



SAMPLES



SAMPLES



8. ASSIGNED VALUES

Test method: SATRA TM52		
BATCH	Pull-off strength	
	N	SD
LMI2235	14.8	1.21
LMI2249	25.5	1.66
LMI2270	48.3	2.08

Test method: SATRA TM134		
BATCH	Density	
	g/cm ³	SD
LMI2420	0.668	0.19
LMI2685	1.291	0.29

Test method: SATRA TM174		
BATCH	Volume loss	
	mm ³	SD
LMI2089	207	11.45
LMI2449	122	6.23

9. PARTICIPANT RESULTS (SEE APPENDIX B)

Test method: SATRA TM52	
CODE	Pull-off strength (N)
LMI2235-09	13.3
LMI2249-05	23.6
LMI2270-10	45.4

Test method: SATRA TM134	
CODE	Density (g/cm ³)
LMI2420-4A	0.556
LMI2685-9A	1.056

Test method: SATRA TM174	
CODE	Volume loss (mm ³)
LMI2089-3A	193
LMI2449-7A	114

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	TEST METHOD: SATRA TM52 Pull-off strength (N)		z score	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
LMI2235	13.3	14.8	1.24	SATISFACTORY
LMI2249	23.6	25.5	1.14	SATISFACTORY
LMI2270	45.4	48.3	1.39	SATISFACTORY

BATCH	TEST METHOD: SATRA TM134 Density (g/cm ³)		z score	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
LMI2420	0.556	0.668	0.59	SATISFACTORY
LMI2685	1.056	1.291	0.81	SATISFACTORY

BATCH	TEST METHOD: SATRA TM174 Volume loss (mm ³)		z score	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
LMI2089	193	207	1.22	SATISFACTORY
LMI2449	114	122	1.28	SATISFACTORY

12. CONCLUSIONS

The overall performance on this **SQ-6058.V14** program from the participant laboratory **INTERTEK TESTING SERVICES DE MEXICO - SOFTLINES LEÓN**, 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



INSTRUCTIONS

PROGRAM:	Footwear industry - SATRA test methods -
CODE:	SQ-6058
VERSION:	14
STANDARD:	SATRA
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

1 - General

This document serves as a guide for managing the results of the **SQ-6058.V14** program.

2 - Standards / Tests involved

STANDARD	TEST
SATRA TM52 - March 2018	Strength of slide fastener pullers
SATRA TM134 - October 1998 (2010)	Density of materials by volume displacement
SATRA TM174 - November 2016	Abrasion resistance

3 - Samples

CODE	SAMPLE	QUANTITY
LMI2089-3A	Black/brown outsole - Size 40	1
LMI2235-09	Salmon plastic slide fastener - 10 cm	6
LMI2249-05	Burgundy metal slide fastener - 10 cm	6
LMI2270-10	Green plastic slide fastener - 16 cm	6
LMI2420-4A	Black outsole - Size 35	1
LMI2449-7A	Black outsole - Size 40	1
LMI2685-9A	Black outsole - Size 35	1

4 - 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) Samples must be retained until the end of the program, which concludes with the submission of the final report.
- d) To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.

5 - Test specification

STANDARD	TEST	CODE	QUANTITY
SATRA TM52 (Method 1)	Force required to pull the puller from the slider	LMI2235-09	3
		LMI2249-05	3
		LMI2270-10	3
SATRA TM52 (Method 2)	Torque required to twist the puller from the slider	LMI2235-09	3
		LMI2249-05	3
		LMI2270-10	3

STANDARD	TEST	CODE	QUANTITY
SATRA TM134	Determination of density	LMI2420-4A	1
		LMI2685-9A	1

STANDARD	TEST	CODE	QUANTITY
SATRA TM174	Determination of abrasion resistance - Volume loss – (Method 1 or 2)	LMI2089-3A	1
		LMI2449-7A	1

PHOTOGRAPHS

APPENDIX B

B1 - PARTICIPANT RESULTS (TR #GTOT26000873)



Total Quality. Assured.

TEST REPORT / INFORME DE RESULTADOS

REPORT NUMBER / NUMERO DE REPORTE : GTOT26000873

Date In / Fecha de Ingreso :		2026/06/09	
Date Out / Fecha de Salida :		2026/06/16	
Performance Test Date / Periodo de Ejecución de Ensayo(s) :		2026/06/09-2026/06/16	
Company Data / Datos de la Compañía		INTERTEK TESTING SERVICES DE MÉXICO S.A DE C.V (León Guanajuato)	
Address / Dirección		Pirul del Valle 113, Col. Valle de León, León, Guanajuato, 37140, México	
Attention / Atención		Octavio Muñoz Jimenez, Jaqueline Jimenez	
		OVERALL RATING / CALIFICACIÓN GENERAL	
		PASS / PASA	
		FAIL / FALLA	
		DATA / DATO	X
Sample Description / Descripción De La Muestra :		Test Type / Tipo de Prueba :	First Test / Primera Prueba
Style / Estilo :		Age Range / Rango de Edad :	Adult / Adulto
Colour / Color :		Component / Componente :	(A)LMI2235- 09, (B)LMI2249-05, (C)LMI2270-10
Manufacturer / Fabricante :		Country Of Distribution / Pais de Distribucion :	Mexico/ México
Country of Origin / País de Origen :			

AUTHORIZED BY :



EFRAIN SANTIAGO GONZALEZ
AUTHORIZED SIGNATORY

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TEST REPORT / INFORME DE RESULTADOS
REPORT NUMBER / NUMERO DE REPORTE : GTOT26000873
CONCLUSION / CONCLUSIÓN:

TEST NAME / NOMBRE DE LA PRUEBA	SAMPLE / MUESTRA	RATING / RESULTADO	COMMENT / COMENTARIO
Strength of Slide Fastener Pullers / Resistencia de los Tiradores de Cierre	A,B,C	D	

REMARK / NOTA:

P = Pass/Pasa F = Fail/Falla D = Data/Dato NA = Not Applicable/No Aplica * = See Remark / Ver nota

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TEST REPORT / INFORME DE RESULTADOS
REPORT NUMBER / NUMERO DE REPORTE : GTOT26000873

TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

1. Strength of Slide Fastener Pullers / Resistencia de los Tiradores de Cierre

SATRA TM 52

	(A)	<u>Requirement /</u> <u>Requerimiento</u>
X [F] (kgf) :	13.3	-
	(B)	<u>Requirement /</u> <u>Requerimiento</u>
X [F] (kgf) :	23.6	-
	(C)	<u>Requirement /</u> <u>Requerimiento</u>
X [F] (kgf) :	45.4	-

Notes/Notas:

Performance Test Date/Fecha de Ejecución del Ensayo: 2026/06/12

Test Laboratory accredited by ema, a.c. with accredited No. MM-2076-274/26 / Laboratorio de Ensayo acreditado por ema, a.c. con acreditación No. MM-2076-274/26

 Measurement uncertainty/Incertidumbre de la medición: $\pm 0.8\%$

A : LMI2235- 09

B : LMI2249-05

C : LMI2270-10

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Preparation/Preparación (A)



Preparation/Preparación (B)



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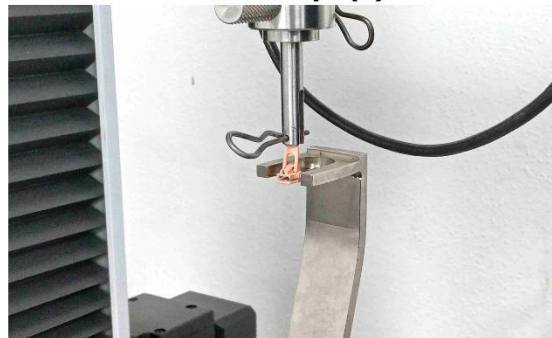
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Preparation/Preparación (C)



Trial/Ensayo (A)



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Trial/Ensayo (B)



Trial/Ensayo (C)



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Guard/Resguardo (A)



Guard/Resguardo (B)



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Guard/Resguardo (C)



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Sample Received /Muestra Recibida



END OF THE TEST REPORT

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B2 - PARTICIPANT RESULTS (TR #GTOT26000874)


TEST REPORT / INFORME DE RESULTADOS
REPORT NUMBER / NUMERO DE REPORTE : GTOT26000874

Date In / Fecha de Ingreso :	2026/06/09
Date Out / Fecha de Salida :	2026/06/16
Performance Test Date / Periodo de Ejecución de Ensayo(s) :	2026/06/09-2026/06/16

Company Data / Datos de la Compañía	INTERTEK TESTING SERVICES DE MÉXICO S.A DE C.V (León Guanajuato)	OVERALL RATING / CALIFICACIÓN GENERAL
Address / Dirección	Pirul del Valle 113, Col. Valle de León, León, Guanajuato, 37140, México	PASS / PASA
Attention / Atención	Octavio Muñoz Jimenez, Jaqueline Jimenez	FAIL / FALLA
		DATA / DATO
		X

Sample Description / Descripción De La Muestra :	Black outsole- Size 35, Black outsole - 35	Test Type / Tipo de Prueba :	First Test / Primera Prueba
Style / Estilo :	LMI2420-4A, LMI2685-9A	Age Range / Rango de Edad :	Adult / Adulto
Colour / Color :	Negro	Component / Componente :	(A)LMI2420-4A, (B)LMI2685-9A
Manufacturer / Fabricante :	SOUTH QUALITY	Country Of Distribution / País de Distribucion :	Mexico/ México
Country of Origin / País de Origen :	Argentina/ Argentina		

AUTHORIZED BY :



 EFRAIN SANTIAGO GONZALEZ
 AUTHORIZED SIGNATORY

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TEST REPORT / INFORME DE RESULTADOS
REPORT NUMBER / NUMERO DE REPORTE : GTOT26000874
CONCLUSION / CONCLUSIÓN:

TEST NAME / NOMBRE DE LA PRUEBA	SAMPLE / MUESTRA	RATING / RESULTADO	COMMENT / COMENTARIO
Density Test / Prueba de Densidad (SATRA TM 134)	A,B	D	

REMARK / NOTA:

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TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

1. Density Test / Prueba de Densidad (SATRA TM 134)

- SATRA TM - 134

	(A)	<u>Requirement /</u> <u>Requerimiento</u>
Density/Densidad (g/cm ³):	0.556	-
	(B)	<u>Requirement /</u> <u>Requerimiento</u>
Density/Densidad (g/cm ³):	1.056	-

Notes/Notas:

Performance Test Date/Fecha de Ejecución del Ensayo: 2026/06/12

Test not accredited/Prueba no acreditada

Temperature/Temperatura : 23.1 °C

Measurement uncertainty/Incertidumbre de la medición: ± 0.9%

A : LMI2420-4A

B : LMI2685-9A

Preparation/Preparación (A)


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Preparation/Preparación (B)



Trial/Ensayo (A)



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Trial/Ensayo (B)



Guard/Resguardo (A)



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Guard/Resguardo (B)



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Sample Received /Muestra Recibida



END OF THE TEST REPORT

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B3 - PARTICIPANT RESULTS (TR #GTOT26000875)



TEST REPORT / INFORME DE RESULTADOS

REPORT NUMBER / NUMERO DE REPORTE : GTOT26000875

Date In / Fecha de Ingreso :	2026/06/09
Date Out / Fecha de Salida :	2026/06/17
Performance Test Date / Periodo de Ejecución de Ensayo(s) :	2026/06/09-2026/06/17

Company Data / Datos de la Compañía	INTERTEK TESTING SERVICES DE MÉXICO S.A DE C.V (León Guanajuato)	OVERALL RATING / CALIFICACIÓN GENERAL
Address / Dirección	Pirul del Valle 113, Col. Valle de León, León, Guanajuato, 37140, México	PASS / PASA
Attention / Atención	Octavio Muñoz Jimenez, Jaqueline Jimenez	FAIL / FALLA
		DATA / DATO

Sample Description / Descripción De La Muestra :	Black/ Brown outsole- Size 40, Black outsole - Size 40	Test Type / Tipo de Prueba :	First Test / Primera Prueba
Style / Estilo :	LMI2089-3A, LMI2449-7A	Age Range / Rango de Edad :	Adult / Adulto
Colour / Color :	Café, Negro, Negro	Component / Componente :	(A)LMI2089-3A, (B)LMI2449-7A
Manufacturer / Fabricante :	SOUTH QUALITY	Country Of Distribution / País de Distribucion :	Mexico/ México
Country of Origin / País de Origen :	Argentina/ Argentina		

AUTHORIZED BY :



EFRAIN SANTIAGO GONZALEZ
AUTHORIZED SIGNATORY

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TEST REPORT / INFORME DE RESULTADOS
REPORT NUMBER / NUMERO DE REPORTE : GTOT26000875
CONCLUSION / CONCLUSIÓN:

TEST NAME / NOMBRE DE LA PRUEBA	SAMPLE / MUESTRA	RATING / RESULTADO	COMMENT / COMENTARIO
Resistencia a la abrasión (SATRA TM174)	A,B	D	
Density Test / Prueba de Densidad (SATRA TM 134)	A,B	D	

REMARK / NOTA:

P = Pass/Pasa F = Fail/Falla D = Data/Dato NA = Not Applicable/No Aplica * = See Remark / Ver nota

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TEST REPORT / INFORME DE RESULTADOS
REPORT NUMBER / NUMERO DE REPORTE : GTOT26000875

TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

1. Resistencia a la abrasión (SATRA TM174)

	Result/Resultado		Requirement/ Requerimiento
	(A)	(B)	
Volume Loss/Perdida de Volumen (mm³):	193	114	-

Notes/Notas:

Performance Test Date/Fecha de Ejecución del Ensayo: 2026/06/12

Test Laboratory accredited by ema, a.c. with accredited No. MM-2076-274/26 / Laboratorio de Ensayo acreditado por ema, a.c. con acreditación No. MM-2076-274/26

Temperature/Temperatura : 23.1 °C

Measurement uncertainty/Incertidumbre de la medición: ± 5.3%

A : LMI2089-3A

B : LMI2449-7A

2. Density Test / Prueba de Densidad (SATRA TM 134)

- SATRA TM - 134

	(A)	<u>Requirement / Requerimiento</u>
Density/Densidad (g/cm³):	1.340	-
	(B)	<u>Requirement / Requerimiento</u>
Density/Densidad (g/cm³):	1.236	-

Notes/Notas:

Performance Test Date/Fecha de Ejecución del Ensayo: 2026/06/12

Test not accredited/Prueba no acreditada

Temperature/Temperatura : 23.2 °C

A : LMI2089-3A

B : LMI2449-7A

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Sample Received /Muestra Recibida



Preparation/Preparación (A)



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Preparation/Preparación (B)



Trial/Ensayo (A)



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Trial/Ensayo (B)



Guard/Resguardo (A)



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Guard/Resguardo (B)



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