SOUTH QUALITY

PROFICIENCY TESTING PROVIDER

REPORT No 12099

Date of issue: *October 13, 2026*

Status: FINAL REPORT

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ISO 13938-2

BURSTING PROPERTIES OF FABRICS PNEUMATIC METHOD FOR DETERMINATION OF BURSTING STRENGTH AND BURSTING DISTENSION

Program: SQ-1017.V2

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1. FOREWORD

This report summarizes the results of the **SQ-1017.V2** proficiency testing program on the determination of bursting strength and bursting distension of textile fabrics. 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 bursting strength and bursting distension of textile fabrics, in accordance with the following standard:

Standard
ISO 13938-2: 2019

To verify this, batches of fabrics samples were selected.

Participants in this program have not been previously informed of the expected behavior 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: **100 units** Tested samples from each batch: **15 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT4124	BATCH: LT4125	BATCH: LT4126
Bursting strength	YES	YES	YES

Size of each batch: **100 units** Tested samples from each batch: **15 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT4186	BATCH: LT4187	BATCH: LT4188
Bursting strength	NO	YES	YES

Samples for this program are taken from the selected batches identified as **LT4124** and **LT4188**.

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

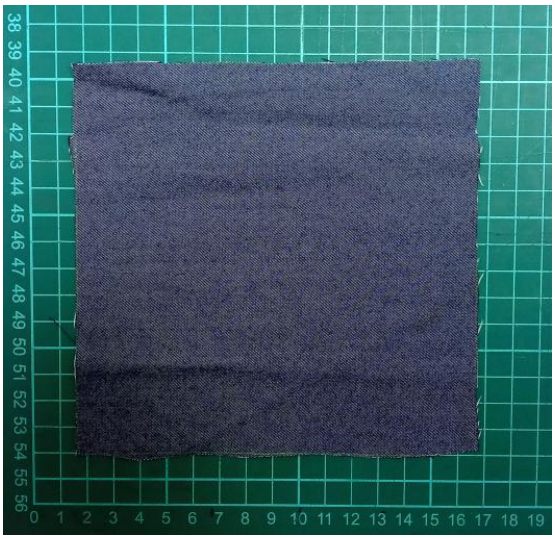
The following samples were sent for testing:

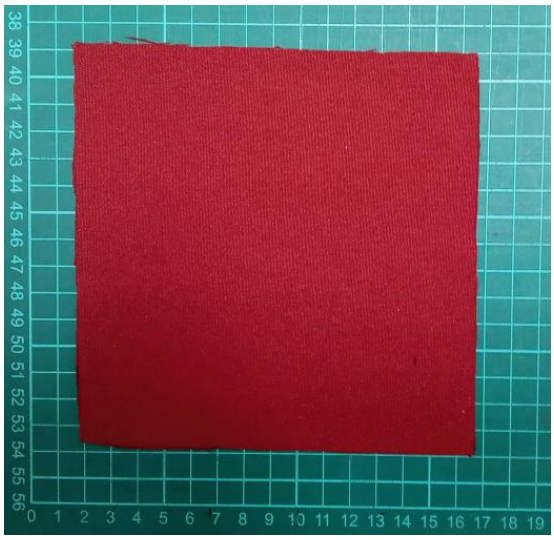
Batch:	LT4124
Sample ID:	05
Characteristics:	Denim fabric - 15 x 15 cm - 5 units

Batch:	LT4188
Sample ID:	08
Characteristics:	Red fabric - 15 x 15 cm - 5 units

7. IMAGES

SAMPLES









8. ASSIGNED VALUES

BATCH	BURSTING STRENGTH (KPA)	
	AVG	SD
LT4124	308.2	3.42
LT4188	No burst	-

9. PARTICIPANT RESULTS (SEE APPENDIX B)

CODE	BURSTING STRENGTH (KPA) AVG
LT4124-05	305.0
LT4188-08	No burst

10. STATISTICS

The results must be treated as qualitative and quantitative.

For qualitative results (No burst), the comparison will be made directly against the assigned values, so any difference will be evaluated as **Unsatisfactory**.

For quantitative results, the comparison is made according to B.4.1.3 of ISO 17043 and 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

QUANTITATIVE RESULTS					
BATCH	PARAMETER	AVG (kPa)		| z score |	PERFORMANCE RESULT
		PARTICIPANT RESULT	ASSIGNED VALUE		
LT4124	BURSTING STRENGTH	305.0	308.2	0.95	SATISFACTORY

QUALITATIVE RESULTS				
BATCH	PARAMETER	PARTICIPANT RESULT	ASSIGNED VALUE	PERFORMANCE RESULT
LT4188	BURSTING STRENGTH	NO BURST	NO BURST	SATISFACTORY

12. CONCLUSIONS

The overall performance on this **SQ-1017.V2** 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:	Bursting properties of fabrics Pneumatic method for determination of bursting strength and bursting distension
CODE:	SQ-1017
VERSION:	2
STANDARD:	ISO 13938-2
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

1 - **General**

This document serves as a guide for managing the results of the **SQ-1017.V2** program.

2 - **Standard**

ISO 13938-2: 2019

3 - **Tests involved**

TEST
Determination of bursting strength and bursting distension of textile fabrics

4 - **Samples**

CODE	SAMPLE	QUANTITY
LT4124-05	Denim fabric - 15 x 15 cm	5
LT4188-08	Red fabric - 15 x 15 cm	5

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 13938-2**.
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.

PHOTOGRAPHS

APPENDIX B

PARTICIPANT RESULTS (TR # MEXT26007863)

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Report Number : **MEXT26007863**

Sample as received



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TEST REPORT

NUMBER : MEXT26007863
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) Denim fabric - 15 x 15 cm B) Red fabric - 15 x 15 cm
Fiber Content	:	Not submitted
Color	:	(A)Denim fabric, (B)Red fabric
Style No.	:	LT4124-05 LT4188-08
Order No./PO No.	:	-
Buyer Name	:	SELF REFERENCE
Other Information	:	SQ-1017 versión 2
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

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TEST REPORT

NUMBER : MEXT26007863
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CONCLUSION :

	(A)	(B)
Pneumatic Method for Determination of Bursting Strength and Bursting Distension	*	*

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 CONDUCTED (AS REQUESTED BY THE APPLICANT)

1. Pneumatic Method for Determination of Bursting Strength and Bursting Distension

ISO 13938-2-1999 Test Area:50 cm² (79.8 mm diameter)
Mean height at burst: 35.0 mm
Test conditions: Conditioned
Number of specimens tested: 5
Machine Type: James heal

(A)

	Bursting strength (kPa)	Requeriment
Specimen 1:	310.4	-
Specimen 2:	303.5	-
Specimen 3:	296.7	-
Specimen 4:	309.4	-
Specimen 5:	304.8	-
Average:	305	-

(B)

	Bursting strength (kPa)	Requeriment
Average:	No burst	-

Specimens after test (A)



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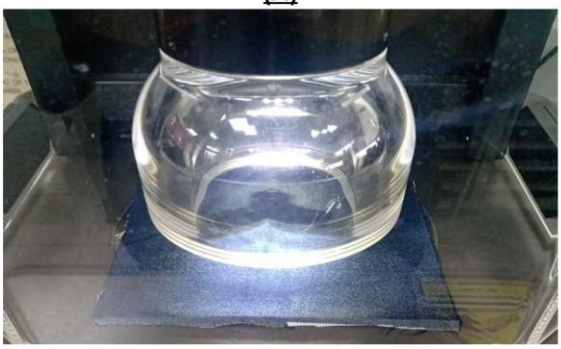
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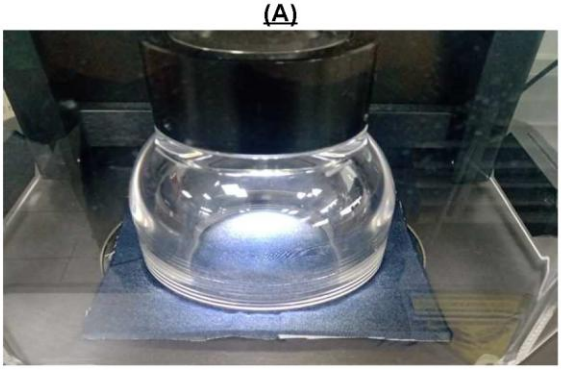
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(A)



(A)



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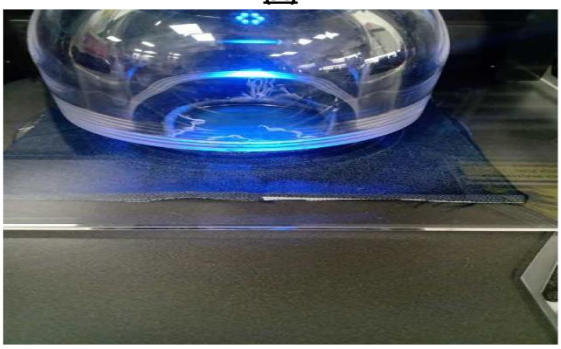
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(A)



(A)



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Specimens after test (B)



(B)



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TEST REPORT

NUMBER : MEXT26007863
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(B)



END OF THE TEST REPORT

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10:51:53 a. m.

James Heal - TruBurst Results
ISO 13938-2 1999

Bursting Properties of Fabrics-Part 2
SE 7863 DENIM
CONDITIONED

20 'C
65%
0
5 / 4
1.0mm
50cm2 (79.8mm Dia)
17kPa/s
3kPa/s
Normal
1000 kPa
0kPa
0.0mm

Results - Corrected

Test	kPa	mm	s
1	310.4	28.8	20.0
2	303.5	28.1	19.6
3	296.7	28.1	19.1
4	309.4	27.5	19.9
5	304.8	25.3	19.5
Mean	305.0	27.6	19.6

----- END OF REPORT -----