

REPORT No 11663

Date of issue: March 12, 2026

Status: FINAL REPORT

16 CFR 1610

FLAMMABILITY OF CLOTHING TEXTILES

Program: SQO-T7 (Round 12)

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1. FOREWORD

This report summarizes the results of the **SQO-T7 (Round 12)** proficiency testing program on the classification of textiles according to their flammability. This program is carried out under a simultaneous participation format, as described in clause A.2.2 of ISO/IEC 17043: 2023 (Types of PT schemes).

South Quality conducted the testing program in January/February 2026. The aim of the program was to assess laboratory ability to competently perform the nominated tests.

2. ORGANIZATION

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

3. OBJECTIVE

The objective of this proficiency testing program is to determine the classification of textiles according to their flammability, using the following standard:

Standard
16 CFR 1610 - 2018

To verify this, batches of fabric samples have been chosen.

Participants in this program have not been previously informed about the expected behavior of the samples they receive.

4. PARTICIPANTS

In the present round, 21 laboratories have participated with the following details:

CODE	Country	ISO 17025 Accredited	Results delivered
01	France	Yes	Yes
02	Colombia	Yes	No
03	Germany	Yes	Yes
04	Spain	Yes	Yes
05	Spain	No	Yes
06	Brazil	Yes	Yes
07	Germany	Yes	Yes
08	Argentina	Yes	No
09	Peru	No	Yes
10	England	Yes	Yes
11	Italy	Yes	Yes
12	Australia	Yes	Yes
13	Portugal	Yes	Yes
14	Mexico	Yes	Yes
15	Canada	Yes	No
16	Brazil	Yes	Yes
17	Türkiye	Yes	Yes
18	Chile	No	Yes
19	Belgium	Yes	Yes
20	France	Yes	Yes
21	South Africa	Yes	Yes

5. HOMOGENEITY

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

Then, a homogeneity study was carried out with an ISO/IEC 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 the samples were selected using random-number-generation software.

The results of this test appear below:

Size of each batch: **40 samples**

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

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT3289	BATCH: LT3290	BATCH: LT3291
Classification	YES	YES	NO

Size of each batch: **40 samples**

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

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT3332	BATCH: LT3333	BATCH: LT3334
Classification	YES	YES	YES

Samples for this program are taken from selected batches identified as **LT3289**, and **LT3333**.

Analysis of this testing data indicated that samples were sufficiently homogeneous for the program and, therefore, any participant results identified as outliers cannot be attributed to sample variability.

6. SAMPLE INFORMATION

The following samples were sent for testing (Participant **Code 11**):

Batch:	LT3289
Sample ID:	11
Characteristics:	White fabric (Raised-fiber surface) - 110 x 75 cm

Batch:	LT3333
Sample ID:	11
Characteristics:	White fabric (Plain surface) - 110 x 75 cm

7. IMAGES



8. ASSIGNED VALUES

The assigned values are obtained from the results reported by all participants (**Consensus values**).

9. PARTICIPANTS' RESULTS

LABORATORY CODE	FLAMMABILITY RESULT			
	LT3289		LT3333	
	Original state	Refurbished	Original state	Refurbished
01	50.5 s	22.3 s	IBE	IBE
03	62.25 s	29.85 s	IBE	IBE
04	58 s	20.7 s	IBE	IBE
05	49.5 s	26.5 s	DNI	DNI
06	54.3 s	28.9 s	IBE	IBE
07	50.78 s	32.45 s	IBE	IBE
09	69.2 s	29.5 s	IBE	IBE
10	37.25 s	36.22 s	IBE	IBE
11	54.87 s	25.9 s	IBE	IBE
12	51.6 s	16.5 s	IBE	IBE
13	48.1 s	25.1 s	IBE	IBE
14	10.5 s	35.2 s	IBE	IBE
16	40.9 s	29.8 s	IBE	IBE
17	60.2 s	26.7 s	IBE	IBE
18	24.18 s	15.52 s	DNI	DNI
19	53.28 s	19.85 s	IBE	IBE
20	53.9 s	26.8 s	IBE	IBE
21	60.85 s	43.14 s	IBE	IBE

ASSIGNED VALUES - FLAMMABILITY RESULT					
LT3289				LT3333	
Original state		Refurbished		Original state	Refurbished
MDN	SD	MDN	SD		
52.44 s	7.34 s	26.75 s	5.60 s	IBE	IBE

10. STATISTICS

The results must be treated as qualitative and quantitative.

According to B.4.1.3 of ISO/IEC 17043: 2023, the appropriate technique is to compare participant results with the assigned values.

For qualitative results 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 through **z score** (B.3 - ISO/IEC 17043: 2023).

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

x is the participant's result

X is the assigned value

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

The performance evaluation 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

LABORATORY CODE	FLAMMABILITY RESULT			
	LT3289 - z score		LT3333 - QUALITATIVE	
	Original state	Refurbished	Original state	Refurbished
01	0.26	0.79	SATISFACTORY	SATISFACTORY
03	1.34	0.55	SATISFACTORY	SATISFACTORY
04	0.76	1.08	SATISFACTORY	SATISFACTORY
05	0.40	0.04	UNSATISFACTORY ❌	UNSATISFACTORY ❌
06	0.25	0.38	SATISFACTORY	SATISFACTORY
07	0.23	1.02	SATISFACTORY	SATISFACTORY
09	2.28	0.49	SATISFACTORY	SATISFACTORY
10	2.07	1.69	SATISFACTORY	SATISFACTORY
11	0.33	0.15	SATISFACTORY	SATISFACTORY
12	0.11	1.83	SATISFACTORY	SATISFACTORY
13	0.59	0.29	SATISFACTORY	SATISFACTORY
14	5.71 ❌	1.51	SATISFACTORY	SATISFACTORY
16	1.57	0.54	SATISFACTORY	SATISFACTORY
17	1.06	0.01	SATISFACTORY	SATISFACTORY
18	3.85 ❌	2.01	UNSATISFACTORY ❌	UNSATISFACTORY ❌
19	0.11	1.23	SATISFACTORY	SATISFACTORY
20	0.20	0.01	SATISFACTORY	SATISFACTORY
21	1.15	2.93	SATISFACTORY	SATISFACTORY

Laboratory Code 01: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 02: The laboratory has not sent the results before the deadline.

Laboratory Code 03: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 04: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 05: The laboratory obtained **UNSATISFACTORY** results for the **LT3333** samples. However, the results for the **LT3289** samples were **SATISFACTORY**.

Laboratory Code 06: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 07: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 08: The laboratory has not sent the results before the deadline.

Laboratory Code 09: The laboratory obtained **QUESTIONABLE** results for the **LT3289** samples. However, the results for the **LT3333** samples were **SATISFACTORY**.

Laboratory Code 10: The laboratory obtained **QUESTIONABLE** results for the **LT3289** samples. However, the results for the **LT3333** samples were **SATISFACTORY**.

Laboratory Code 11: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 12: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 13: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 14: The laboratory obtained **UNSATISFACTORY** results for the **LT3289** samples. However, the results for the **LT3333** samples were **SATISFACTORY**.

Laboratory Code 15: The laboratory has not sent the results before the deadline.

Laboratory Code 16: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 17: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 18: The laboratory obtained **UNSATISFACTORY** results for both samples.

Laboratory Code 19: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 20: The laboratory obtained **SATISFACTORY** results for all samples.

Laboratory Code 21: The laboratory obtained **QUESTIONABLE** results for the **LT3289** samples. However, the results for the **LT3333** samples were **SATISFACTORY**.

12. CONCLUSIONS

The overall performance on this **SQO-T7 (Round 12)** program from the participating laboratories, based on expected results, are the following:

- Laboratories Codes **01, 03, 04, 06, 07, 11, 12, 13, 16, 17, 19,** and **20** have obtained a **SUFFICIENT** performance in accordance with the expected results and should not take action.
- Laboratories Codes **09, 10,** and **21** have obtained an **ALMOST SUFFICIENT** performance in accordance with the expected results and must evaluate whether corrective action is necessary.
- Laboratories Codes **05, 14,** and **18** have obtained an **INSUFFICIENT** performance in accordance with the expected results and must take corrective action (See Appendix B).

The criteria used for the evaluation of the overall performance are the following:

- **SUFFICIENT** performance: No unsatisfactory/questionable results 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

A1 - PARTICIPANT DATA

Company: **Intertek Italia SPA**

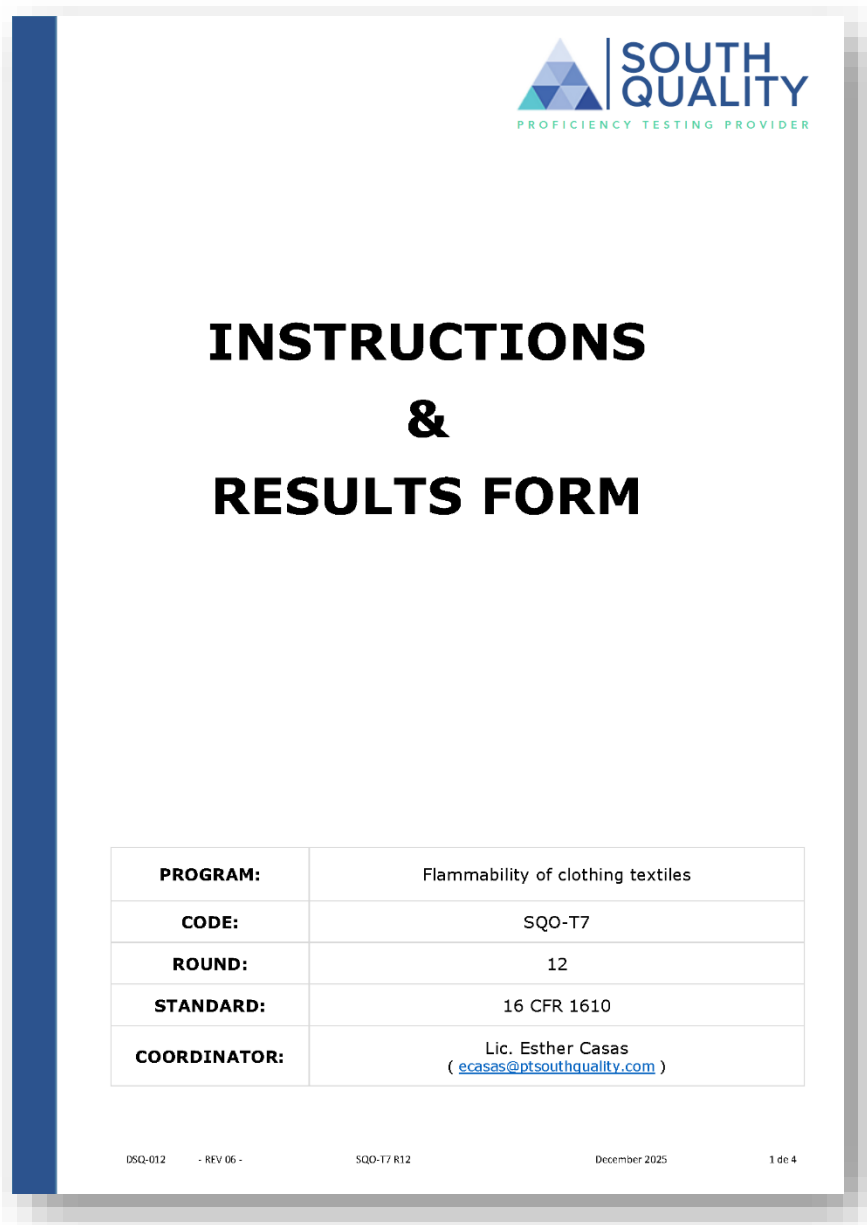
Laboratory: **Intertek Italia SPA**


Country: Italy

Client ID: E487

Contact person: Giulia Bettini - Lab Quality Manager
(giulia.bettini@intertek.com)

A2 - PARTICIPANT RESULTS



 **SOUTH
QUALITY**
PROFICIENCY TESTING PROVIDER

INSTRUCTIONS & RESULTS FORM

PROGRAM:	Flammability of clothing textiles
CODE:	SQO-T7
ROUND:	12
STANDARD:	16 CFR 1610
COORDINATOR:	Lic. Esther Casas (ecisas@ptsouthquality.com)

DSQ-012 - REV 06 - SQO-T7 R12 December 2025 1 de 4

1 - General

This document is intended to be filled with the results of the **SQO-T7 (Round 12)** program.

Results must be typed, not handwritten.

2 - Standard

16 CFR 1610 - 2018

3 - Participant

INTERTEK ITALIA SPA	CODE 11
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4 - Tests involved

TEST
Classification of textiles according to their flammability

5 - Samples

CODE	CHARACTERISTICS	QUANTITY
LT3289-11	White fabric (Raised-fiber surface) - 110 x 75 cm	1
LT3333-11	White fabric (Plain surface) - 110 x 75 cm	1

6 - Notes

- a) The deadline for the delivery of results is **February 13, 2026**.
- b) The tables in this document may be modified by the participant, if desired, to include data or observations.
- c) The samples are to be handled as routine lab samples, with all testing, documentation, and reporting adhering to 16 CFR 1610.
- d) The surface of the samples to be exposed to the flame shall be the one marked with the ID.
- e) The samples must be kept until the end of the program, which concludes with the submission of the final report.
- f) To review the results, the submission of images of the tests is appreciated. These images can be attached at the end of this document or sent via email.
- g) Upon completion of this document, please convert it to a PDF file and send it to the program coordinator.

7 - Test result

Method:	According to standard
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CONDITIONING		TESTING ENVIROMENT	
Temperature (°C):	105,0	Max. temperature (°C):	22.1
Time (h):	00:30	Min. temperature (°C):	21.9
		Max. relative humidity (%):	48.4
		Min. relative humidity (%):	48.1

SAMPLE	BURNING TIME (s)	
	ORIGINAL STATE	REFURBISHED
LT3289-11	54,7 sec	25,9 sec
LT3333-11	IBE	IBE

OBSERVATIONS
No observations

PHOTOGRAPHS

Images of the samples attached by email.

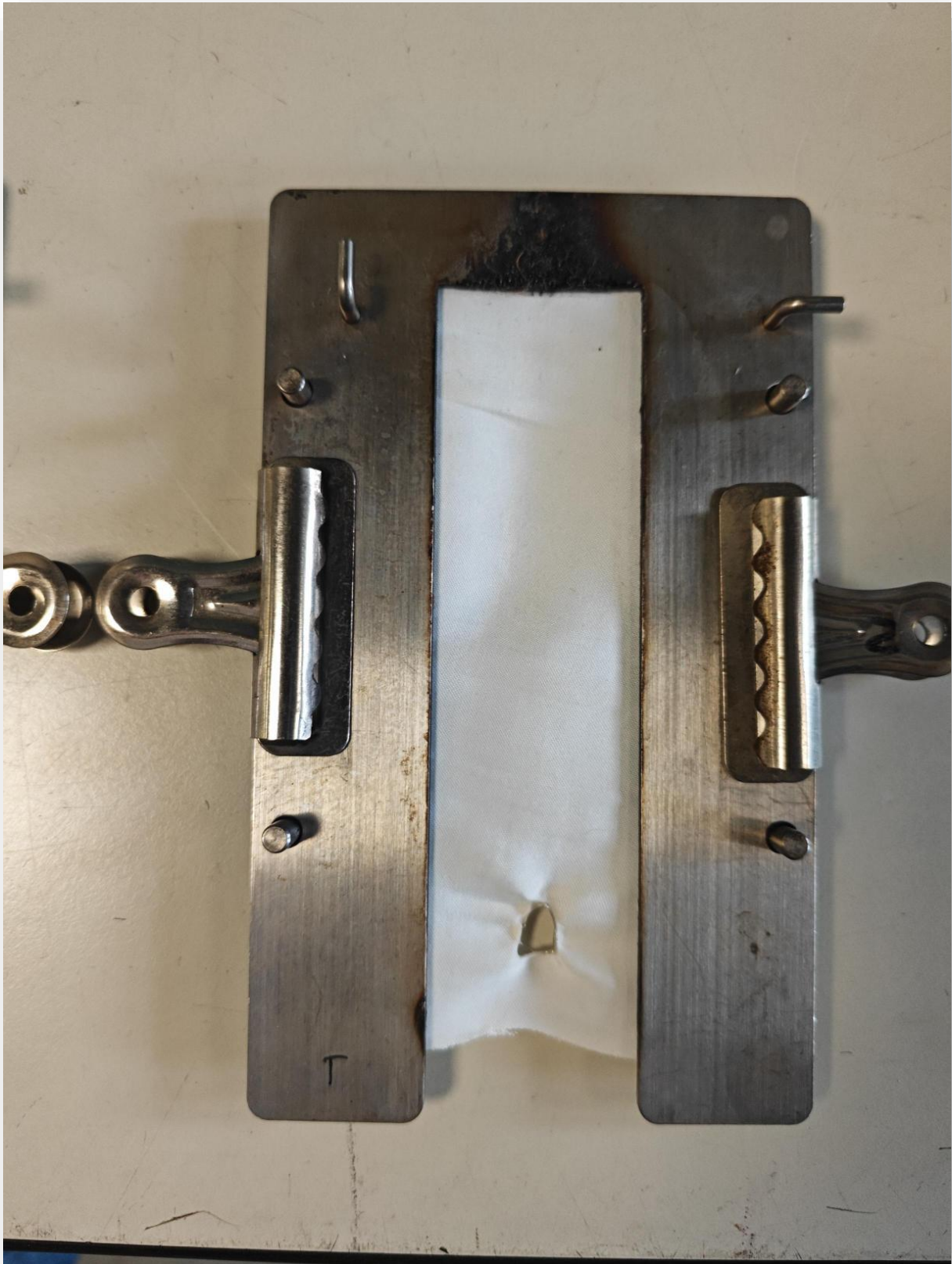
A3 - PARTICIPANT RESULTS (IMAGES)













APPENDIX B

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