

# REPORT No 11416

*Date of issue: October 29, 2025*

*Status: FINAL REPORT*

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## 16 CFR 1615

# FLAMMABILITY OF CHILDREN'S SLEEPWEAR: SIZES O THROUGH 6X (FF 3-71)

## Program: SQ-1165.V1

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## 1. FOREWORD

This report summarizes the results of the **SQ-1165.V1** proficiency testing program on the classification of textiles according to their flammability. This program is conducted in a bilateral format, following the A.3.3 classification of the ISO 17043 standard ("Split-sample testing schemes").

**South Quality** conducted the testing program in September 2025 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  
 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 1615

To verify this, batches of fabrics have been selected.

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

## 4. PARTICIPANT

Company: **Element Material Technology Canada Inc.**  
 Laboratory: **Toronto - Fire Testing**  
 Country: Canada  
 Client ID: C114  
 Contact person: Mel Garces  
 Supervisor  
[mel.garces@element.com](mailto:mel.garces@element.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 Guide 35: 2017, clause 7.4.1.2. Stratified random sampling was employed, and samples were chosen using random number generation software.

The results of this test are presented below:

Size of each batch: **40 units**

Tested samples from each batch: **8 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT3540	BATCH: LT3541	BATCH: LT3542
Flame resistance	NO	YES	YES

Size of each batch: **40 units**

Tested samples from each batch: **8 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT3607	BATCH: LT3608	BATCH: LT3609
Flame resistance	NO	YES	NO

Samples for this program are taken from the selected batches identified as **LT3542** and **LT3608**.

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

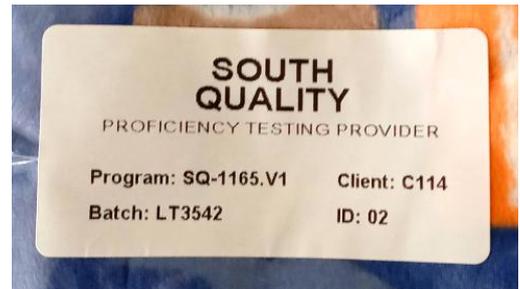
The following samples were sent for testing:

Batch:	LT3542
Sample ID:	02
Characteristics:	Children's navy blue sleepwear top (Car motif)

Batch:	LT3608
Sample ID:	03
Characteristics:	Children's pink sleepwear top (Hearts motif)

## 7. IMAGES

### SAMPLES



## 8. ASSIGNED VALUES

BATCH	FLAME RESISTANCE (BEFORE LAUNDERING)
LT3542	FAIL
LT3608	FAIL

## 9. PARTICIPANT RESULTS (SEE APPENDIX)

CODE	FLAME RESISTANCE (BEFORE LAUNDERING)
LT3542-02	FAIL
LT3608-03	FAIL

## 10. STATISTICS

The results must be treated as qualitative.

For qualitative results, the comparison will be made directly against the assigned values, so any difference will be evaluated as **Unsatisfactory**.

## 11. EVALUATION OF PERFORMANCE

BATCH	FLAME RESISTANCE (BEFORE LAUNDERING)		PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE	
LT3542	FAIL	FAIL	SATISFACTORY
LT3189	FAIL	FAIL	SATISFACTORY

## 12. CONCLUSIONS

The overall performance on this **SQ-1165.V1** program from the participant laboratory **ELEMENT MATERIAL TECHNOLOGY CANADA INC. - Toronto - Fire Testing** is **SUFFICIENT** based on expected results.

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

- **SUFFICIENT** performance: No unsatisfactory results were obtained.
- **INSUFFICIENT** performance: An unsatisfactory result was obtained.

# APPENDIX A

## INSTRUCTIONS



# INSTRUCTIONS

<b>PROGRAM:</b>	Flammability of children's sleepwear: Sizes 0 through 6X (FF 3-71)
<b>CODE:</b>	SQ-1165
<b>VERSION:</b>	1
<b>STANDARD:</b>	16 CFR 1615
<b>COORDINATOR:</b>	Lic. Esther Casas ( <a href="mailto:ecasas@ptsouthquality.com">ecasas@ptsouthquality.com</a> )

**1 - General**

This document serves as a guide for managing the results of the **SQ-1165.V1** program.

**2 - Standard**

**16 CFR 1615**

**3 - Tests involved**

TEST
Classification of textiles according to their flammability

**4 - Samples**

CODE	SAMPLE	QUANTITY
LT3542-02	Children's navy blue sleepwear top (Car motif)	1
LT3608-03	Children's pink sleepwear top (Hearts motif)	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) 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.

**PHOTOGRAPHS**

# APPENDIX B

## PARTICIPANT RESULTS (TR # 25-002-392 E)



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### 16 CFR Part 1615 Proficiency Testing of "LT3542-02"

**A Report To:** **PT South Quality SAS**  
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Ciudad Autónoma de Buenos Aires  
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**Phone:** +54 9 11 2614 6800

**Attention:** Lic. Esther Casas  
**E-mail:** [ecasas@ptsouthquality.com](mailto:ecasas@ptsouthquality.com)

**Submitted by:** Element Fire Testing

**Report No.** 25-002-392(E)  
3 pages + Appendix

**Date:** September 17, 2025



**1.0 ACCREDITATION**

ISO/IEC 17025 for a defined Scope of Testing by the American Association for Laboratory Accreditation (A2LA), Certificate Number: 6524.03.

**2.0 SPECIFICATIONS OF ORDER**

Determine flame resistance in accordance with 16 CFR Part 1615, when tested "as received" only, as per PT South Quality Proficiency Testing Provider.

**2.1 History of Report Revision**

This is the original.

**3.0 SAMPLE IDENTIFICATION**

Material Identification	"LT3542-02"
Supplied Material Description*	Children's navy blue sleepwear top (car motif)
Measured Sample Weight (g/m <sup>2</sup> )	235.9
Date of Material Receipt	2025-08-21
Element Sample Identification No.	25-002-S0392-5
Test Dates	2025-09-15 & 2025-09-17

\* The material description as supplied by the client. Element cannot always validate the accuracy of the description provided. If appreciable differences are observed between the material description and the specimen, test data may not be representative. Information or data supplied by the client can affect validity of results.

**4.0 GENERAL SUMMARY OF TEST PROCEDURE**

Five specimens, each 8.9 x 25.4 cm (3.5 x 10 in.) are prepared. Three specimens are cut in one fabric direction, and two specimens are cut in the opposite direction. The specimens are conditioned for 30 minutes in an air-circulation oven at a temperature of 105°C. Specimens are then cooled in a desiccator. Each specimen is removed from the desiccator individually and then suspended in a U-shaped holder in a specified cabinet. The free edge of the specimen is positioned above the tip of a specified gas burner which has been adjusted to yield a flame height of 3.8 cm (1.5 in.) Flame exposure time is 3.0 ± 0.2 seconds and then the flame is removed. After all flaming and glowing activity has ceased, specimens are removed from the holder, are then folded and creased longitudinally through the highest point of visible char. The hook from a specified weight is then pierced through one side of the specimen approximately 0.6 cm (0.25 in.) from the lower edge and the other side of the fabric is lifted. Char length is determined to be the length to the top the physical tear created by the hanging weight, to the original bottom edge of the specimen.

**5.0 PERFORMANCE REQUIREMENTS**

- (1) **Average char length.** The average char length of five specimens shall not exceed 17.8 cm. (7.0 in.).
- (2) **Full specimen burn.** No individual specimen shall have a char length of 25.4 cm. (10 in.)

**5.1 Table 1. Applied Loads by Original Sample Weight**

g/m <sup>2</sup>	oz/yd <sup>2</sup>	Applied Loads	
		g	lbs
less than 101	less than 3	54.4	0.12
101 to 207	3 to 6	113.4	0.25
207 to 338	6 to 10	226.8	0.50
greater than 338	greater than 10	340.2	0.75

**6.0 SAMPLE PREPARATION**

Specimens were cut by Element to appropriate dimensions and quantity for testing.



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For: PT South Quality SAS

**7.0 TEST RESULTS**

**16 CFR Part 1615**

Standard for the Flammability of Children's Sleepwear: Sizes 0 through 6X (FF 3-71)

**SAMPLE: "LT3542-02"**

Test Specimen	Damaged Length (cm)	Damaged Length (inches)	Result
1 (machine direction)	12.5	4.9	Pass
2 (machine direction)	25.4	10.0	Fail
3 (machine direction)	13.4	5.3	Pass
4 (cross direction)	8.3	3.3	Pass
5 (cross direction)	15.9	6.3	Pass
Average:	15.1	5.94	Fail
Maximum Specified Average:	17.8	7.00	
Maximum Specified Individual:	25.4	10.0	

**7.1 Test Notes and Observations**

Specimen weight (g/m<sup>2</sup>) 235.9

Applied Weight Load (g) (where applicable): 226.8

Material was tested "as-received" (original state), after oven conditioning.

Based on the failure of one specimen only, the test is repeated using five specimens in the direction of the failure.

**7.2 Re-Test Results**

Test Specimen	Damaged Length (cm)	Damaged Length (inches)	Result
1 (machine direction)	25.4	10.0	Fail
2 (machine direction)	22.9	9.0	Pass
3 (machine direction)	25.4	10.0	Fail
4 (machine direction)	15.7	6.2	Pass
5 (machine direction)	25.4	10.0	Fail
Average:	23.0	9.04	Fail
Maximum Specified Average:	17.8	7.00	
Maximum Specified Individual:	25.4	10.0	

**8.0 CONCLUSIONS**

When tested "as-received", the material identified in this report fails to meet the flammability requirements for children's sleepwear, as specified in 16 CFR Part 1615.



Serap Carpino,  
Technologist, Fire Testing.



Mel Garces,  
Supervisor, Fire Testing.

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For: PT South Quality SAS

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**A.0 APPENDIX**

**A.1 Test Photographs**



Before testing



After testing



After Re-testing machine direction

# APPENDIX C

## PARTICIPANT RESULTS (TR # 25-002-392 F)



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### 16 CFR Part 1615 Proficiency Testing of "LT3608-03"

**A Report To:** **PT South Quality SAS**  
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Ciudad Autónoma de Buenos Aires  
Argentina

**Phone:** +54 9 11 2614 6800

**Attention:** Lic. Esther Casas  
**E-mail:** [ecasas@ptsouthquality.com](mailto:ecasas@ptsouthquality.com)

**Submitted by:** Element Fire Testing

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Test Report No.: 25-002-392(F)  
 16 CFR Part 1615 Proficiency Testing of "LT3608-03"  
 For: PT South Quality SAS

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**1.0 ACCREDITATION**

ISO/IEC 17025 for a defined Scope of Testing by the American Association for Laboratory Accreditation (A2LA), Certificate Number: 6524.03.

**2.0 SPECIFICATIONS OF ORDER**

Determine flame resistance in accordance with 16 CFR Part 1615, when tested "as received" only, as per PT South Quality Proficiency Testing Provider.

**2.1 History of Report Revision**

This is the original.

**3.0 SAMPLE IDENTIFICATION**

Material Identification	"LT3608-03"
Supplied Material Description*	Children's navy pink sleepwear top (hearts motif)
Measured Sample Weight (g/m <sup>2</sup> )	237
Date of Material Receipt	2025-08-21
Element Sample Identification No.	25-002-S0392-6
Test Dates	2025-09-15 & 2025-09-17

\* The material description as supplied by the client. Element cannot always validate the accuracy of the description provided. If appreciable differences are observed between the material description and the specimen, test data may not be representative. Information or data supplied by the client can affect validity of results.

**4.0 GENERAL SUMMARY OF TEST PROCEDURE**

Five specimens, each 8.9 x 25.4 cm (3.5 x 10 in.) are prepared. Three specimens are cut in one fabric direction, and two specimens are cut in the opposite direction. The specimens are conditioned for 30 minutes in an air-circulation oven at a temperature of 105°C. Specimens are then cooled in a desiccator. Each specimen is removed from the desiccator individually and then suspended in a U-shaped holder in a specified cabinet. The free edge of the specimen is positioned above the tip of a specified gas burner which has been adjusted to yield a flame height of 3.8 cm (1.5 in.) Flame exposure time is 3.0 ± 0.2 seconds and then the flame is removed. After all flaming and glowing activity has ceased, specimens are removed from the holder, are then folded and creased longitudinally through the highest point of visible char. The hook from a specified weight is then pierced through one side of the specimen approximately 0.6 cm (0.25 in.) from the lower edge and the other side of the fabric is lifted. Char length is determined to be the length to the top the physical tear created by the hanging weight, to the original bottom edge of the specimen.

**5.0 PERFORMANCE REQUIREMENTS**

- (1) **Average char length.** The average char length of five specimens shall not exceed 17.8 cm. (7.0 in.).
- (2) **Full specimen burn.** No individual specimen shall have a char length of 25.4 cm. (10 in.)

**5.1 Table 1. Applied Loads by Original Sample Weight**

g/m <sup>2</sup>	oz/yd <sup>2</sup>	Applied Loads	
		g	lbs
less than 101	less than 3	54.4	0.12
101 to 207	3 to 6	113.4	0.25
207 to 338	6 to 10	226.8	0.50
greater than 338	greater than 10	340.2	0.75

**6.0 SAMPLE PREPARATION**

Specimens were cut by Element to appropriate dimensions and quantity for testing.



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For: PT South Quality SAS

**7.0 TEST RESULTS**
**16 CFR Part 1615**

Standard for the Flammability of Children's Sleepwear: Sizes 0 through 6X (FF 3-71)

**SAMPLE: "LT3608-03"**

Test Specimen	Damaged Length (cm)	Damaged Length (inches)	Result
1 (machine direction)	25.4	10.0	Fail
2 (machine direction)	7.1	2.8	Pass
3 (machine direction)	19.0	7.5	Pass
4 (cross direction)	17.1	6.7	Pass
5 (cross direction)	12.5	4.9	Pass
Average:	16.2	6.39	Fail
Maximum Specified Average:	17.8	7.00	
Maximum Specified Individual:	25.4	10.0	

**7.1 Test Notes and Observations**

 Specimen weight (g/m<sup>2</sup>) 237

Applied Weight Load (g) (where applicable): 226.8

Material was tested "as-received" (original state), after oven conditioning.

Based on the failure of one specimen only, the test is repeated using five specimens in the direction of the failure.

**7.2 Re-Test Results**

Test Specimen	Damaged Length (cm)	Damaged Length (inches)	Result
1 (machine direction)	25.4	10.0	Fail
2 (machine direction)	25.4	10.0	Fail
3 (machine direction)	25.4	10.0	Fail
4 (machine direction)	25.4	10.0	Fail
5 (machine direction)	25.4	10.0	Fail
Average:	25.4	10.00	Fail
Maximum Specified Average:	17.8	7.00	
Maximum Specified Individual:	25.4	10.0	

**8.0 CONCLUSIONS**

When tested "as-received", the material identified in this report fails to meet the flammability requirements for children's sleepwear, as specified in 16 CFR Part 1615.



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For: PT South Quality SAS

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**A.0 APPENDIX**

**A.1 Test Photographs**



Before testing



After testing



After Re-testing machine direction

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