

# REPORT No 11539

*Date of issue: January 12, 2026*

**Status: FINAL REPORT**

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## ISO 7211-2

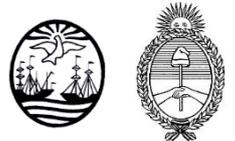
### DETERMINATION OF NUMBER OF THREADS PER UNIT LENGTH

#### Program: SQ-1159.V4

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## 1. FOREWORD

This report summarizes the results of the **SQ-1159.V4** proficiency testing program on the determination of number of threads per unit length. 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 December 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 number of threads per centimetre in woven fabrics, using the following standard:

Standard
ISO 7211-2: 2024

To verify this, batches of woven 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: **Bureau Veritas Laboratuvarları Ltd. Şti.**  
Laboratory: **Bureau Veritas Laboratuvarları Ltd. Şti.**  
Country: Turkey  
Client ID: E477  
Contact person: Aygül Duran  
Quality Process Leader  
[aygul.duran@bureauveritas.com](mailto:aygul.duran@bureauveritas.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: **50 units**

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

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT3013	BATCH: LT3014	BATCH: LT3015
Number of threads (WARP)	YES	YES	YES
Number of threads (WEFT)	YES	YES	YES

Size of each batch: **50 units**

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

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT3049	BATCH: LT3050	BATCH: LT3051
Number of threads (WARP)	YES	YES	YES
Number of threads (WEFT)	YES	YES	YES

Size of each batch: **50 units**

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

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT3160	BATCH: LT3161	BATCH: LT3162
Number of threads (WARP)	YES	YES	YES
Number of threads (WEFT)	YES	YES	YES

Samples for this program are taken from the selected batches identified as **LT3013**, **LT3049** and **LT3162**.

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:	LT3013
Sample ID:	12
Characteristics:	Red fabric - 40 x 40 cm

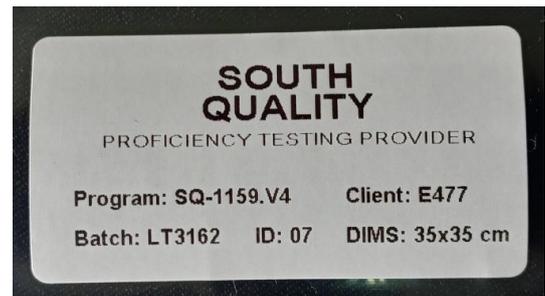
Batch:	LT3049
Sample ID:	09
Characteristics:	Beige fabric - 40 x 40 cm

Batch:	LT3162
Sample ID:	07
Characteristics:	Black fabric - 35 x 35 cm

## 7. IMAGES



## SAMPLES



### 8. ASSIGNED VALUES

BATCH	DIRECTION	THREAD COUNT
LT3013	WARP	40
	WEFT	28
LT3049	WARP	22
	WEFT	16
LT3162	WARP	36
	WEFT	21

## 9. PARTICIPANT RESULTS (SEE APPENDIX B)

CODE	DIRECTION	THREAD COUNT
LT3013-12	WARP	40
	WEFT	28
LT3049-09	WARP	22
	WEFT	16
LT3162-07	WARP	36
	WEFT	21

## 10. STATISTICS

The results must be treated as quantitative.

According B.3.1.3 of ISO 17043 the appropriate technique is to compare participant results with the assigned values. The results can be compare using percent difference **D**.

$$D = (x - X)$$

$x$  is the participant's result

$X$  is the assigned value

The performance evaluation is carried out with the following criteria:

**$|D| = 0$**  indicates “satisfactory” performance and generates no signal;

**$|D| = 1$**  indicates “questionable” performance and generates a warning signal;

**$|D| \geq 2$**  indicates “unsatisfactory” performance and generates an action signal;

## 11. EVALUATION OF PERFORMANCE

BATCH	DIRECTION	THREAD COUNT		D	PERFORMANCE RESULT
		PARTICIPANT RESULT	ASSIGNED VALUE		
LT3013	WARP	40	40	0	SATISFACTORY
	WEFT	28	28	0	SATISFACTORY
LT3049	WARP	22	22	0	SATISFACTORY
	WEFT	16	16	0	SATISFACTORY
LT3162	WARP	36	36	0	SATISFACTORY
	WEFT	21	21	0	SATISFACTORY

## 12. CONCLUSIONS

The overall performance on this **SQ-1159.V4** program from the participant laboratory **Bureau Veritas Laboratuvarları Ltd. Şti.**, is **SUFFICIENT** based on expected results.

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

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

# APPENDIX A

## INSTRUCTIONS



# INSTRUCTIONS

<b>PROGRAM:</b>	Determination of number of threads per unit length
<b>CODE:</b>	SQ-1159
<b>VERSION:</b>	4
<b>STANDARD:</b>	ISO 7211-2
<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-1159.V4** program.

### 2 - Standard

**ISO 7211-2: 2024**

### 3 - Tests involved

TEST
Determination of the number of threads per centimetre in woven fabrics

### 4 - Samples

CODE	SAMPLE	QUANTITY
LT3013-12	Red fabric - 40 x 40 cm	1
LT3049-09	Beige fabric - 40 x 40 cm	1
LT3162-07	Black fabric - 35 x 35 cm	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 7211-2**.
- 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 # (7225)323-0292)



**BV CPS TEST LABORATUVARLARI LTD. STI.  
BUREAU VERITAS CONSUMER PRODUCTS  
SERVICES**

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website: www.bureauveritas.com/cps



TS EN ISO/IEC 17025  
AB-0505-T

AB-0505-T

72253230292

12-25

### TEST REPORT

LAB LOCATION: TURKEY  
SERVICE TYPE: Regular  
LAB NO: (7225)323-0292  
THE DATE OF RECEIPT OF TEST ITEM: November 19, 2025  
START DATE FOR TESTING: December 03, 2025  
DATE END OF TEST: December 05, 2025  
RE-CONF.DATE: December 08, 2025  
NUMBER OF WORKING DAYS: 3.0

CUSTOMER NAME / ADDRESS : SOUTH QUALITY  
CONTACT NAME : (Attn: Lic.Esther Casas)  
BUYER : /  
SUPPLIER REFERENCE : Code: SQ-1159  
P.O. No: /  
SAMPLE DESCRIPTION : Woven Fabric Samples  
(Claimed Fiber Content: /)  
(Claimed Fabric Weight: /)  
COLOUR : Sample A: Navy  
Sample B: Red  
Sample C: Beige  
SUBMITTED CARE INSTRUCTION: /



Date Out  
(08/12/2025)

Furkan Yilmaz  
Client Team Lead

Hasan Altıngül  
Deputy General Manager Operation  
(08/12/2025)

C/N HM /DS

BV CPS Test Laboratuvarları Ltd. Şti. accredited by TÜRKAK under registration number AB-0505-T for TS EN ISO/IEC 17025:2017 as test laboratory. Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

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Controlled by: Aygül Duran  
Approved by: Meltem Mat



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**SUMMARY OF TEST RESULTS**

TEST PERFORMED	PASS	FAIL	DATA
Thread Count Of Woven Fabric*			X

**\* TURKAK Accredited- See Appendix A**

REMARKS	
<b>1</b>	: P: Pass, F: Fail, DATA: No Evaluation, N/A: Not Applicable
<b>2</b>	: *The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/ fail limits, some results may be in borderline. Information on uncertainty is contained in appendix A on this report.
<b>3</b>	: The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.



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**ORIGINAL**  
(SAMPLE IMAGE)





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**TEST RESULTS**

**REQUIREMENTS**

<b>THREAD COUNT OF WOVEN FABRIC (ISO 7211-2:2024, OPTION A)</b>		
<b>SAMPLE A</b>		
DIRECTION 1	40	/
DIRECTION 2	28	/
*REMARK		
<b>SAMPLE B</b>		
DIRECTION 1	22	/
DIRECTION 2	16	/
*REMARK		
<b>SAMPLE C</b>		
DIRECTION 1	36	/
DIRECTION 2	21	/
*REMARK		

\*\* Indicates below the requirements.

APPENDIX A -LIST OF MEASUREMENT UNCERTAINTIES		
TEST NAME	STANDARD NAME	MEASUREMENT UNCERTAINTY
Thread Count Of Woven Fabric	ISO 7211-2 (Method A)	±4.3%

-END OF REPORT-

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