

REPORT No 11984

Date of issue: July 23, 2026

Status: FINAL REPORT

ASTM D3774

WIDTH OF TEXTILE FABRIC

Program: SQ-1106

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1. FOREWORD

This report summarizes the results of the **SQ-1106** proficiency testing program on the measurement of the width of woven or knitted 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 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 determine the width of woven or knitted fabrics, using the following standard:

Standard
ASTM D3774 - 18 (2024)

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

Participants in this program have not been previously informed about the expected values or value ranges of the samples they receive.

4. PARTICIPANT

Company: **SIRIM QAS INTERNATIONAL SDN BHD**
Laboratory: **Chemical, Polymer and Composite Section (CPCT)**
Country: Malaysia
Client ID: S326
Contact person: Muhammad Rizal
Principal Testing Engineer
mdrizal@sirim.my

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: LT1996	BATCH: LT1997	BATCH: LT1998
WIDTH	YES	NO	YES

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT2068	BATCH: LT2069	BATCH: LT2070
WIDTH	YES	YES	YES

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT2180	BATCH: LT2181	BATCH: LT2182
WIDTH	YES	YES	YES

The samples for this program are taken from the selected batches identified as **LT1996**, **LT2070**, and **LT2180**.

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:	LT1996
Sample ID:	21
Characteristics:	Denim fabric - 200 x 140 cm - 1 unit

Batch:	LT2070
Sample ID:	14
Characteristics:	Red fabric - 200 x 150 cm - 1 unit

Batch:	LT2180
Sample ID:	32
Characteristics:	Brown fabric - 200 x 140 cm - 1 unit

7. IMAGES



SAMPLES



8. ASSIGNED VALUES

WIDTH (BATCH: LT1996)		
PARAMETER	cm	SD
MIN	143.2	0.28
MAX	144.3	0.29
AVG	143.89	0.21

WIDTH (BATCH: LT2070)		
PARAMETER	cm	SD
MIN	151.1	0.12
MAX	151.6	0.12
AVG	151.29	0.09

WIDTH (BATCH: LT2180)		
PARAMETER	cm	SD
MIN	144.4	0.26
MAX	145.7	0.26
AVG	145.25	0.19

9. PARTICIPANT RESULTS (SEE APPENDX)

WIDTH (CODE: LT1996-21)	
PARAMETER	cm
MIN	143.5
MAX	144.3
AVG	143.94

WIDTH (CODE: LT2070-14)	
PARAMETER	cm
MIN	151.2
MAX	151.5
AVG	151.38

WIDTH (CODE: LT2180-32)	
PARAMETER	cm
MIN	144.5
MAX	145.5
AVG	145.14

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

PARAMETER	WIDTH (BATCH: LT1996)		z score	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
MIN (cm)	143.5	143.2	1.1	SATISFACTORY
MAX (cm)	144.3	144.3	0	SATISFACTORY
AVG (cm)	143.94	143.89	0.2	SATISFACTORY

PARAMETER	WIDTH (BATCH: LT2070)		z score	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
MIN (cm)	151.2	151.1	0.8	SATISFACTORY
MAX (cm)	151.5	151.6	0.8	SATISFACTORY
AVG (cm)	151.38	151.29	1.0	SATISFACTORY

PARAMETER	WIDTH (BATCH: LT2180)		z score	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
MIN (cm)	144.4	144.5	0.4	SATISFACTORY
MAX (cm)	145.7	145.5	0.8	SATISFACTORY
AVG (cm)	145.25	145.14	0.6	SATISFACTORY

12. CONCLUSIONS

The overall performance of this **SQ-1106** program from the participant laboratory **SIRIM QAS INTERNATIONAL SDN BHD - Chemical, Polymer and Composite Section (CPCT)**, 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

INSTRUCTIONS



INSTRUCTIONS

PROGRAM: WIDTH OF TEXTILE FABRIC

CODE: SQ-1106

VERSION: -

STANDARD: ASTM D3774

COORDINATOR: Lic. Esther Casas
(ecasas@ptsouthquality.com)

1 - General

This document serves as a guide for managing the results of the **SQ-1106** program.

2 - Standard

ASTM D3774 - 18 (2024)

3 - Tests involved

TEST
Measurement of the width of woven or knitted fabrics

4 - Samples

CODE	SAMPLE	QUANTITY
LT1996-21	Denim fabric	1
LT2070-14	Red fabric	1
LT2180-32	Brown fabric	1

5 - Notes

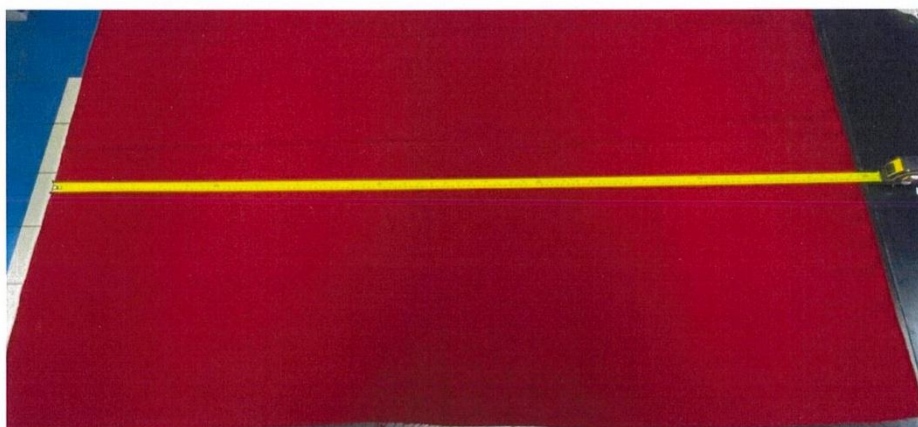
- a) Being a bilateral program, there is no deadline for submitting results.
- b) The participant must submit the results using the usual report employed by their laboratory.
- c) The samples are to be handled as routine lab samples, with all testing, documentation, and reporting adhering to **ASTM D3774**.
- 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

LT1996-21 : Denim fabric



LT2070-14: Red fabric



LT2180-32: Brown fabric



DSQ-012 - REV 06 -

SQ-1106

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Sirim Qas International Sdn. Bhd.
 Chemical, Polimer & Compisite Section
 Rekod Ujian

Tarikh: _12/6/2026

No. Kerja		Jenis ujian	Width
Barangan	Fabric	Tanda barangan	LT1996-21 DENIM FABRIC
Kaedah ujian	ASTM D 3774	Pemohon	SAMPLE PT

Senarai alat yang digunakan:

1	Measuring tape	2	Temperature and Humidity Datalogger		
			TK 68		

Standard atmosphere:

Kelembapan: $65 \pm 4\%$ Suhu : $20 \pm 2^\circ\text{C}$

Alternative standard atmosphere:

Specific standard: Kelembapan: $50 \pm 4\%$ Suhu : $23 \pm 2^\circ\text{C}$
 Tropical standard: Kelembapan: $65 \pm 4\%$ Suhu : $23 \pm 2^\circ\text{C}$

Kedaaan bilik semasa ujian:

Kelembapan sebenar : 60.1%

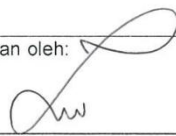
Suhu sebenar : 23.3°C

Specimen size: As per received

Measuring points: 5 points distributed evenly on the length of the fabric

Point of measurement	Measurement (cm)	Minimum reading (cm)	Maximum reading (cm)	Ave. measurement (cm)
1	144.3	143.5	144.3	143.94 cm
2	143.8			
3	143.7			
4	144.4			
5	143.5			

Correction factor for stainless ruler: 0.0000

Disahkan oleh:	Disemak oleh:	Disediakan oleh:
		
Nama: <u> </u>	Nama: <u> </u>	Nama: Mahizan
Tarikh: <u>12/6/26</u>	Tarikh: <u> </u>	Tarikh: 12/6/2026

No Keluaran : 1
~~1900000~~

Tarikh Keluaran : ~~27-6-2024~~

Dikeluarkan Oleh : Pegawai Kualiti

Sirim Qas International Sdn. Bhd.
 Chemical, Polimer & Compisite Section
 Rekod Ujian

Tarikh: _12/6/2026

No. Kerja		Jenis ujian	Width
Barangan	Fabric	Tanda barangan	LT2070-14 RED FABRIC
Kaedah ujian	ASTM D 3774	Pemohon	SAMPLE PT

Senarai alat yang digunakan:

1	Measuring tape	2	Temperature and Humidity Datalogger		
	-		TK 68		

Standard atmosphere:

Kelembapan: $65 \pm 4\%$ Suhu: $20 \pm 2^\circ\text{C}$

Alternative standard atmosphere:

Specific standard: Kelembapan: $50 \pm 4\%$ Suhu: $23 \pm 2^\circ\text{C}$

Tropical standard: Kelembapan: $65 \pm 4\%$ Suhu: $23 \pm 2^\circ\text{C}$

Keadaan bilik semasa ujian:

Kelembapan sebenar: _60.1_%

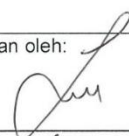
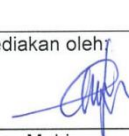
Suhu sebenar: _23.3_°C

Specimen size: As per received

Measuring points: 5 points distributed evenly on the length of the fabric

Point of measurement	Measurement (cm)	Minimum reading (cm)	Maximum reading (cm)	Ave. measurement (cm)
1	151.4	151.2	151.5	151.38 cm
2	151.5			
3	151.5			
4	151.2			
5	151.3			

Correction factor for stainless ruler: 0.0000

Disahkan oleh:	Disemak oleh:	Disediakan oleh:
		
Nama: <i>K. M.</i>	Nama:	Nama: Mahizan
Tarikh: <i>12/6/26</i>	Tarikh:	Tarikh: 12/6/2026

No Keluaran : 1
~~12/6/2026~~

Tarikh Keluaran : ~~27-6-2024~~

Dikeluarkan Oleh: Pegawai Kualiti

Sirim Qas International Sdn. Bhd.
Chemical, Polimer & Compisite Section
Rekod Ujian

Tarikh: _12/6/2026

No. Kerja		Jenis ujian	Width
Barangan	Fabric	Tanda barangan	LT2180-32 BROWN FABRIC
Kaedah ujian	ASTM D 3774	Pemohon	SAMPLE PT

Senarai alat yang digunakan:

1	Measuring tape	2	Temperature and Humidity Datalogger		
	-		TK 68		

Standard atmosphere:

Kelembapan: $65 \pm 4\%$ Suhu : $20 \pm 2^{\circ}\text{C}$

Alternative standard atmosphere:

Specific standard: Kelembapan: $50 \pm 4\%$ Suhu : $23 \pm 2^{\circ}\text{C}$

Tropical standard: Kelembapan: $65 \pm 4\%$ Suhu : $23 \pm 2^{\circ}\text{C}$

Kedadaan bilik semasa ujian:

Kelembapan sebenar : _60.1_%

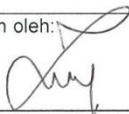
Suhu sebenar : _23.3_°C

Specimen size: As per received

Measuring points: 5 points distributed evenly on the length of the fabric

Point of measurement	Measurement (cm)	Minimum reading (cm)	Maximum reading(cm)	Ave. measurement (cm)
1	145.5	144.5	145.5	145.14 cm
2	144.5			
3	145			
4	145.2			
5	145.5			

Correction factor for stainless ruler: 0.0000

Disahkan oleh:	Disemak oleh:	Disediakan oleh:
		
Nama:	Nama:	Nama: Mahizan
Tarikh: 12/6/26	Tarikh:	Tarikh: 12/6/2026

No Keluaran : 1
ISO 22828

Tarikh Keluaran : 27/3/2014

Dikeluarkan Oleh : Pegawai Kualiti

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