REPORT No 11391

Date of issue: September 11, 2025

Status: FINAL REPORT

****

CERAM PT32

DETERMINATION OF HANDLE STRENGHT OF CERAMIC HOLLOWARE ARTICLES

Program: SQ-3538.V11

****

This document is issued by the Company subject to its Terms and Conditions, available on request or accessible at https://www.ptsouthquality.com/terms-and-conditions. The Company's sole responsibility is to its Client ant this document does not exonerate parties to a transaction from exercising all their rights and obligations under transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Copyright © 2024 South Quality, Buenos Aires, ARGENTINA

Prepared by:	Reviewed by:	Approved by:
cn=BERENICE C. FERREL, o=PT SOUTH QUALITY SAS, ou=SOUTH QUALITY, email=tech@ptsouthquality.com, c=AR 2025.09.11 12:08:10 -03'00'	cn=ESTHER CASAS, o=PT SOUTH QUALITY SAS, ou=SOUTH QUALITY, email=ecasas@ptsouthquality.com, c=AR 2025.09.11 14:25:58 -03'00'	cn=Emiliano Medina, o=SOUTH QUALITY, ou=PT SOUTH QUALITY SAS, email=quality@ptsouthquality.com, c=ES 2025.09.11 16:47:09 -03'00'
Berenice Ferrel Assistant Technician	**Lic. Esther Casas** Physics expert	**Eng. Emiliano Medina** Quality Assurance Lead

TABLE OF CONTENTS

1.	**FOREWORD**	3
2.	**ORGANIZATION**	3
3.	**OBJECTIVE**	3
4.	**PARTICIPANT**	3
5.	**HOMOGENEITY**	4
6.	**SAMPLE INFORMATION**	4
7.	**IMAGES**	5
8.	**ASSIGNED VALUES**	5
9.	**PARTICIPANT RESULTS**	5
10.	**STATISTICS**	6
11.	**EVALUATION OF PERFORMANCE**	6
12.	**CONCLUSIONS**	7
APPENDIX		
	PARTICIPANT RESULTS (Results form)	8

1. FOREWORD

This report summarizes the results of the **SQ-3538.V11** proficiency testing program on the verification of the strength of handles of ceramic holloware articles. 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 August 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 Ferrer
Statistic:	Lic. Manuel Tozaki
Supervision:	Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is verification of the strength of handles of ceramic holloware articles using the following standard:

Standard
CERAM PT32 - 03

To verify this, batches of ceramic mugs 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 Consumer Products Services (Bangladesh) Ltd.**
Laboratory:	**Bureau Veritas Consumer Products Services (Bangladesh) Ltd.**
Country:	Bangladesh
Client ID:	S340
Contact person:	Mash-huda Akhter Deputy Senior Manager, Technical Service mashhuda.akhter@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 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: **50 units** Tested samples from each batch: **20 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LGC2615	BATCH: LGC2616	BATCH: LGC2617
HANDLE STRENGTH FAILURE VALUE	YES	NO	YES

The samples for this program are taken from the selected batch identified as **LGC2617**.

For the indicated batch, 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:	LGC2617
Sample ID:	09
Characteristics:	Black ceramic mug - 350ml - 3 units

7. IMAGES

SAMPLES

8. ASSIGNED VALUES

BATCH	HANDLE STRENGTH FAILURE AVG VALUE (FT.LBF)	SD
LGC2617	0.31	0.02

9. PARTICIPANT RESULTS (SEE APPENDIX)

CODE	HANDLE STRENGTH FAILURE AVG VALUE (FT.LBF)
LGC2617-09	0.28

10. STATISTICS

The results must be treated as quantitative.

The comparison is made according B.3.1.3 of ISO 17043 and the appropriate technique is to compare participant results with the assigned values. The results can be compare using percent difference 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:

$\lvert z \rvert \leq$ **2.0**	**indicates "satisfactory" performance and generates no signal;**
2.0 $< \lvert z \rvert <$ **3.0**	**indicates "questionable" performance and generates a warning signal;**
$\lvert z \rvert \geq$ **3.0**	**indicates "unsatisfactory" performance and generates an action signal;**

11. EVALUATION OF PERFORMANCE

BATCH	HANDLE STRENGTH FAILURE AVG VALUE (FT.LBF)		$\lvert z$ score $\rvert$	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
LGC2617	0.28	0.31	**1.50**	**SATISFACTORY**

12. CONCLUSIONS

The overall performance on this **SQ-3538.V11** program from the participant laboratory **Bureau Veritas Consumer Products Services (Bangladesh) Ltd.**, is **SUFFICIENT** based on expected results.

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

- **SUFFICIENT** performance: No unsatisfactory result was obtained.
- **ALMOST SUFFICIENT** performance: A questionable result was obtained.
- **INSUFFICIENT** performance: An unsatisfactory result was obtained.

APPENDIX

PARTICIPANT RESULTS

(Results form)

INSTRUCTIONS
&
RESULTS FORM

PROGRAM:	Determination of handle strenght of ceramic holloware articles
CODE:	SQ-3538
VERSION:	11
STANDARD:	CERAM PT32
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

DSQ-012 - REV 06 - SQ-3538.V11 1 de 4

1 - General

This document serves as a guide for managing the results of the **SQ-3538.V11** program.

Results must be typed, not handwritten.

2 - Standard

CERAM PT32 - 03

3 - Tests involved

TEST
Verification of the strength of handles of ceramic hollowware articles

4 - Samples

CODE	SAMPLE	QUANTITY
LGC2617-09	Black ceramic mug - 350ml	3

5 - Notes

a) Being a bilateral program, there is no deadline for submitting results.
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 **CERAM PT32**.
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.
f) Once this document is completed, it must be converted into a PDF file and sent to the program coordinator.

6 - **Test results**

Test date:	17.08.2025

TESTING ENVIROMENT	
Temperature (°C):	23
Relative humidity (%):	50

CODE	Item number	Handle strength failure value (ft.lbf)	Nature of failure (H T P)
LGC2617-09	1	0.31	P
	2	0.26	H
	3	0.26	H
	MEAN	0.28	

OBSERVATIONS

PHOTOGRAPHS

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