REPORT No 11951

Date of issue: *July 23, 2026*

Status: FINAL REPORT

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ASTM G48 - Method B

PITTING CORROSION RESISTANCE OF STAINLESS STEELS AND RELATED ALLOYS BY USE OF FERRIC CHLORIDE SOLUTION

Program: SQ-0078.V3

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TABLE OF CONTENTS

1. **FOREWORD** 3

2. **ORGANIZATION** 3

3. **OBJECTIVE** 3

4. **PARTICIPANT** 3

5. **HOMOGENEITY** 4

6. **SAMPLE INFORMATION** 5

7. **IMAGES** 5

8. **ASSIGNED VALUES** 6

9. **PARTICIPANT RESULTS** 6

10. **STATISTICS** 6

11. **EVALUATION OF PERFORMANCE** 7

12. **CONCLUSIONS** 7

APPENDICES

APPENDIX A - INSTRUCTIONS 8

APPENDIX B - PARTICIPANT RESULTS (TR #**G48BDF 6309 / 26**) 16

APPENDIX C - PARTICIPANT RESULTS (TR #**G48BDF 6310 / 26**) 18

1. FOREWORD

This report summarizes the results of the **SQ-0078.V3** proficiency testing program on the determination of the resistance of stainless steels and related alloys to pitting and crevice corrosion. 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 May 2026 with the aim of assessing the laboratory's ability to competently perform the designated tests.

2. ORGANIZATION

Program Coordinator:	Eng. Alfredo Schmidt
Assistant Technician:	Sergio Andrada
Statistics:	Lic. Manuel Tozaki
Supervision:	Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is to evaluate the resistance of stainless steels and related alloys to pitting and crevice corrosion, in accordance with the following standard:

Standard
ASTM G48-25 - Method B

To perform this verification, batches of steel were selected.

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

4. PARTICIPANT

Company:	**SIDER TEST SRL**
Laboratory:	**SIDER TEST SRL**
Country:	Italy
Client ID:	E546
Contact person:	Lucia Soprana General Manager l.soprana@sidertest.it

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

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LM2473	BATCH: LM2474	BATCH: LM2475
Mass loss corrosion rates	NO	YES	YES
Presence of pit or crevices	NO	YES	NO

Size of each batch: **50 units** Tested samples from each batch: **15 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LM2699	BATCH: LM2700	BATCH: LM2701
Mass loss corrosion rates	YES	YES	YES
Presence of pit or crevices	YES	YES	NO

Samples for this program are taken from the selected batches identified as **LM2474** and **LM2699.**

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:	LM2474
Sample ID:	12
Observation:	Stainless steel (AISI 304) - 50 x 30 x 4.8 mm

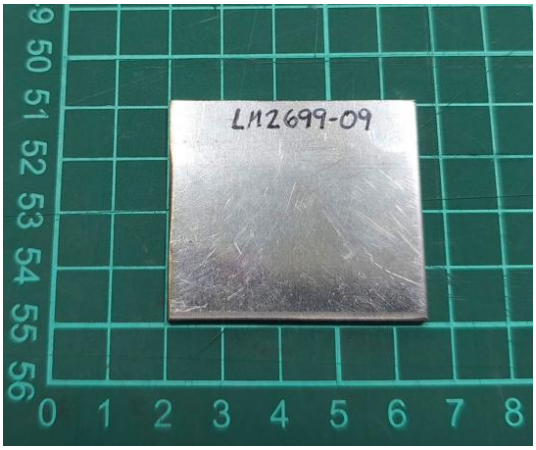
Batch:	LM2699
Sample ID:	09
Observation:	Stainless steel (AISI 430) - 45 x 40 x 3 mm

7. IMAGES

SAMPLES









8. ASSIGNED VALUES

BATCH	MASS LOSS CORROSION RATE		PRESENCE OF PITS OR CREVICES
	(g/cm²)	SD	
LM2474	0.0185	0.007	YES
LM2699	0.0228	0.011	YES

9. PARTICIPANT RESULTS (SEE APPENDICES)

CODE	MASS LOSS CORROSION RATE (g/cm²)	PRESENCE OF PITS OR CREVICES
LM2474-12	0.0200	YES
LM2699-09	0.0250	YES

10. STATISTICS

The results must be treated as qualitative and quantitative.

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 according to B.4.1.3 of ISO 17043 and 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

BATCH	MASS LOSS CORROSION RATE (g/cm^2)		$\lvert z \text{ score} \rvert$	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
LM2474	0.0200	0.0185	**0.21**	**SATISFACTORY**
LM2699	0.0250	0.0228	**0.20**	**SATISFACTORY**

BATCH	PRESENCE OF PITS OR CREVICES		PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE	
LM2474	YES	YES	**SATISFACTORY**
LM2699	YES	YES	**SATISFACTORY**

12. CONCLUSIONS

The overall performance of this **SQ-0078.V3** program from the participant laboratory **SIDER TEST SRL**, 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 A

INSTRUCTIONS

SOUTH QUALITY
PROFICIENCY TESTING PROVIDER

INSTRUCTIONS
&
RESULTS FORM

PROGRAM:	Pitting corrosion resistance of stainless steels and related alloys by use of ferric chloride solution
CODE:	SQ-0078
VERSION:	3
STANDARD:	ASTM G48 (Method B)
COORDINATOR:	Eng. Alfredo Schmidt (aschmidt@ptsouthquality.com)

1 - General

This document serves as a guide for managing the results of the **SQ-0078.V3** program.

Results must be typed, not handwritten.

2 - Standard

ASTM G48-25 - Method B

3 - Tests involved

TEST
METHOD B FERRIC CHLORIDE CREVICE CORROSION TEST

4 - Samples

CODE	SAMPLE	QUANTITY
LM2474-12	Stainless steel - 50 x 30 x 4.8 mm	1
LM2699-09	Stainless steel - 45 x 40 x 3 mm	1

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 **ASTM G48**.
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**

Method:	- According to standard - Perform air passivation for 24 hours - Polished finish: 120 grit

Temperature (°C):	22 ± 2

Immerse time (h):	72

Test equipment:	• Analytical Scale (Mettler, res 0.001 g, max weight 520 g), internal ID 329/RC; • RTD Pt 100 for temperature monitoring, internal ID 438/006/RC, 438/013/RC, 438/014/RC; • Caliper (res. 0.01 mm) 809/RC; • Microscope (Leica DM6M-Z LED Stand) for crevice depth measurement, internal ID 787/RC; • Water Bath, internal ID 878/RC

Test dates:	22/05/2026 – 25/05/2026

CODE	Dimensions (l, w, t) (cm)	Exposed area (cm^2)	Initial weight (g)	Final weight (g)	Mass loss (g/cm^2)	Presence of pits or crevices (YES / NO)
LM2474-12	4.950 x 2.914 x 0.460	36.08	53.0564	52.3339	0.0200	YES

	Measure (µm)
Average of crevice depth sur. A+B	230.88
Average of crevice depth under O-rings	802.75
Maximum crevice depth A+B	646.00
Maximum crevice depth under O-rings	899.00
	Number
No. of crevice side A	3
No. of crevice side B	8
No. of crevice under O-rings	4
	Number/cm^2
No. of crevice side A per cm^2	0.21
No. of crevice side B per cm^2	0.55

Test dates:	22/05/2026 – 25/05/2026

CODE	Dimensions (l, w, t) (cm)	Exposed area (cm^2)	Initial weight (g)	Final weight (g)	Mass loss (g/cm^2)	Presence of pits or crevices (YES / NO)
LM2699-09	4.484 x 3.070 x 0.279	31.75	30.4770	29.6834	0.0250	YES

	Measure (µm)
Average of crevice depth sur. A+B	146.90
Average of crevice depth under O-rings	877.00
Maximum crevice depth A+B	283.00
Maximum crevice depth under O-rings	1453.00
	Number
No. of crevice side A	6
No. of crevice side B	5
No. of crevice under O-rings	4
	Number/cm^2
No. of crevice side A per cm^2	0.44
No. of crevice side B per cm^2	0.36

OBSERVATIONS
The specimens have been examined at 20X.

PHOTOGRAPHS

LM2474-12 side A, post-test



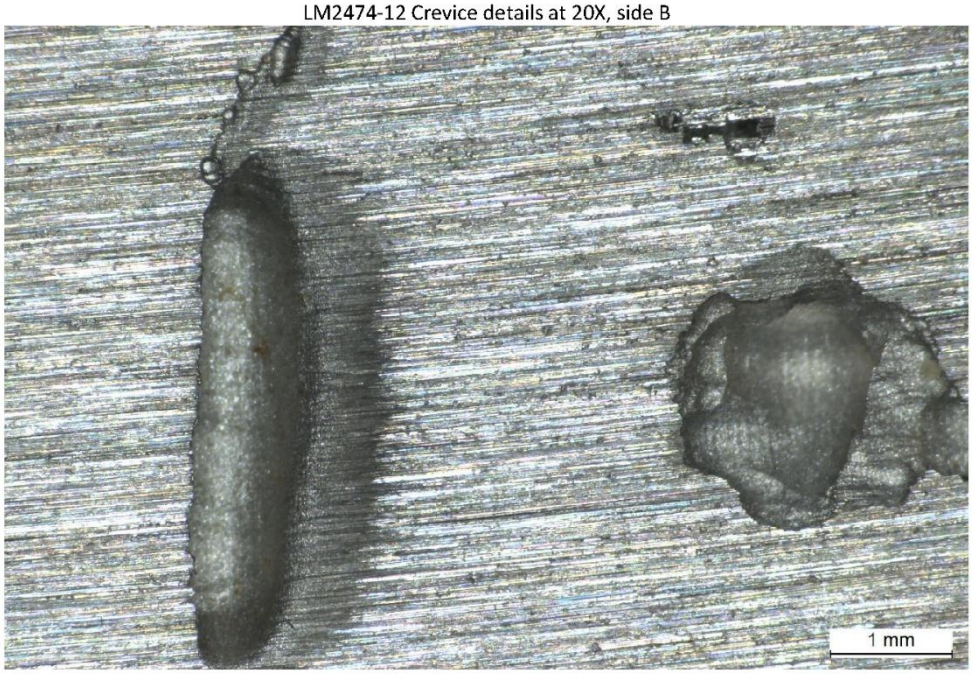
LM2474-12 side B, post-test



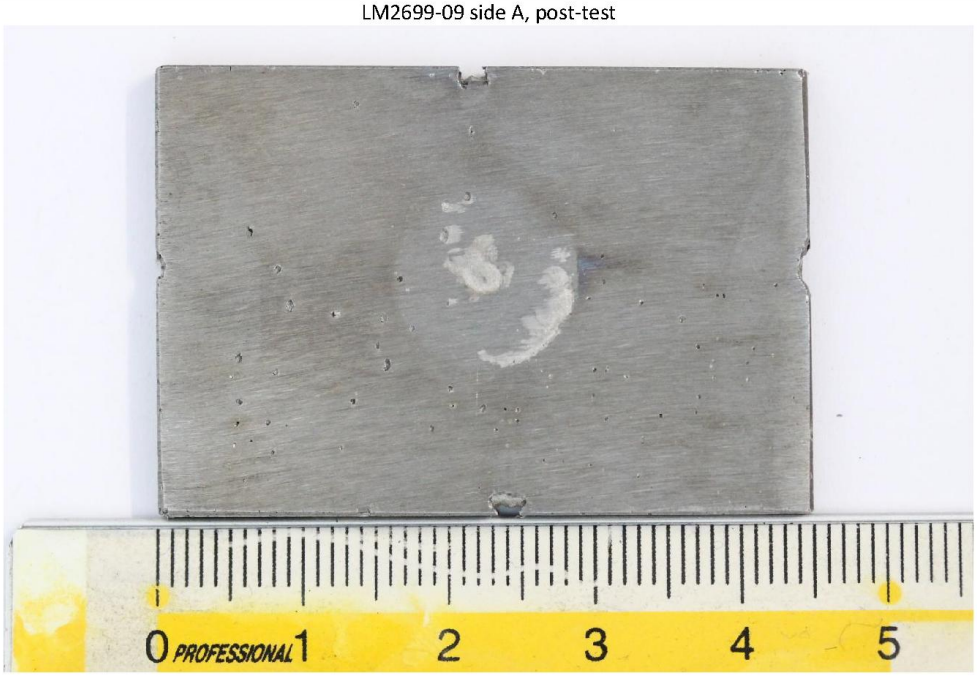
LM2474-12 Crevice details at 10X, side A



LM2474-12 Crevice details at 20X, side B



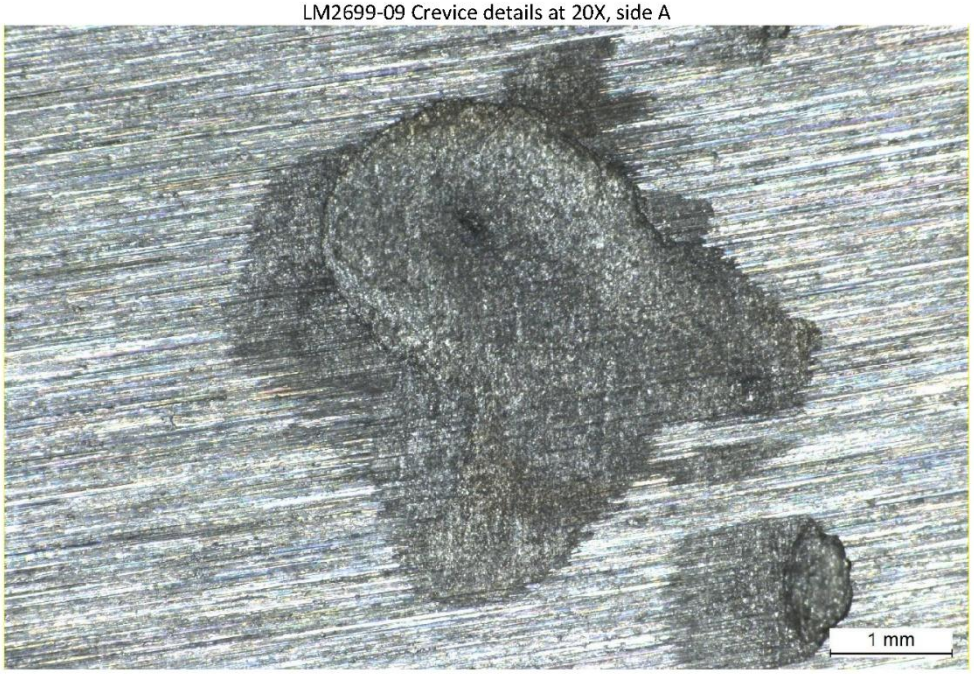
LM2699-09 side A, post-test



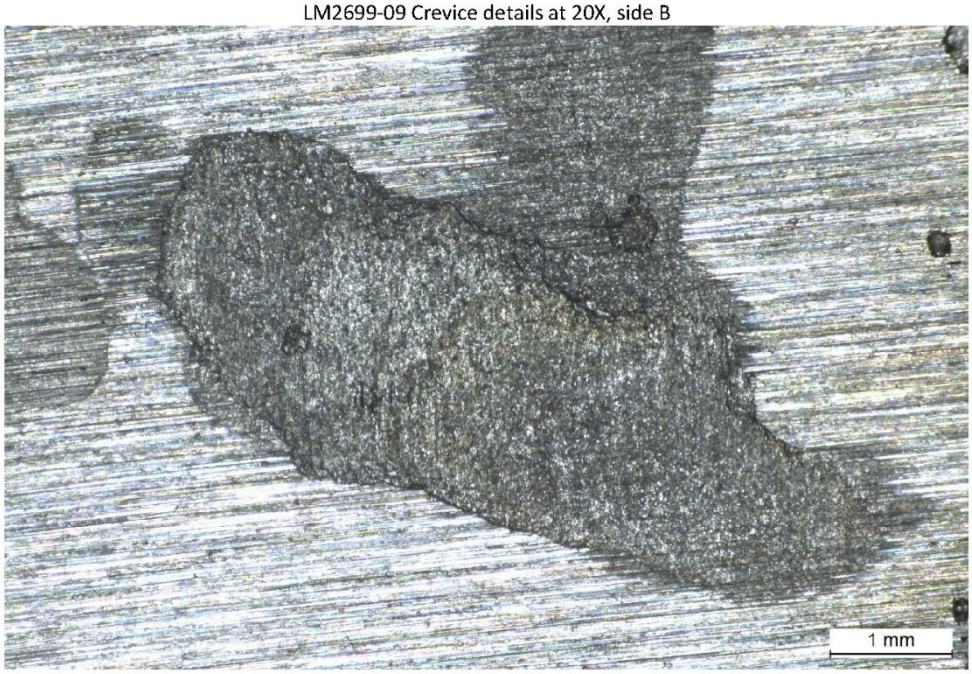
LM2699-09 side B, post-test



LM2699-09 Crevice details at 20X, side A

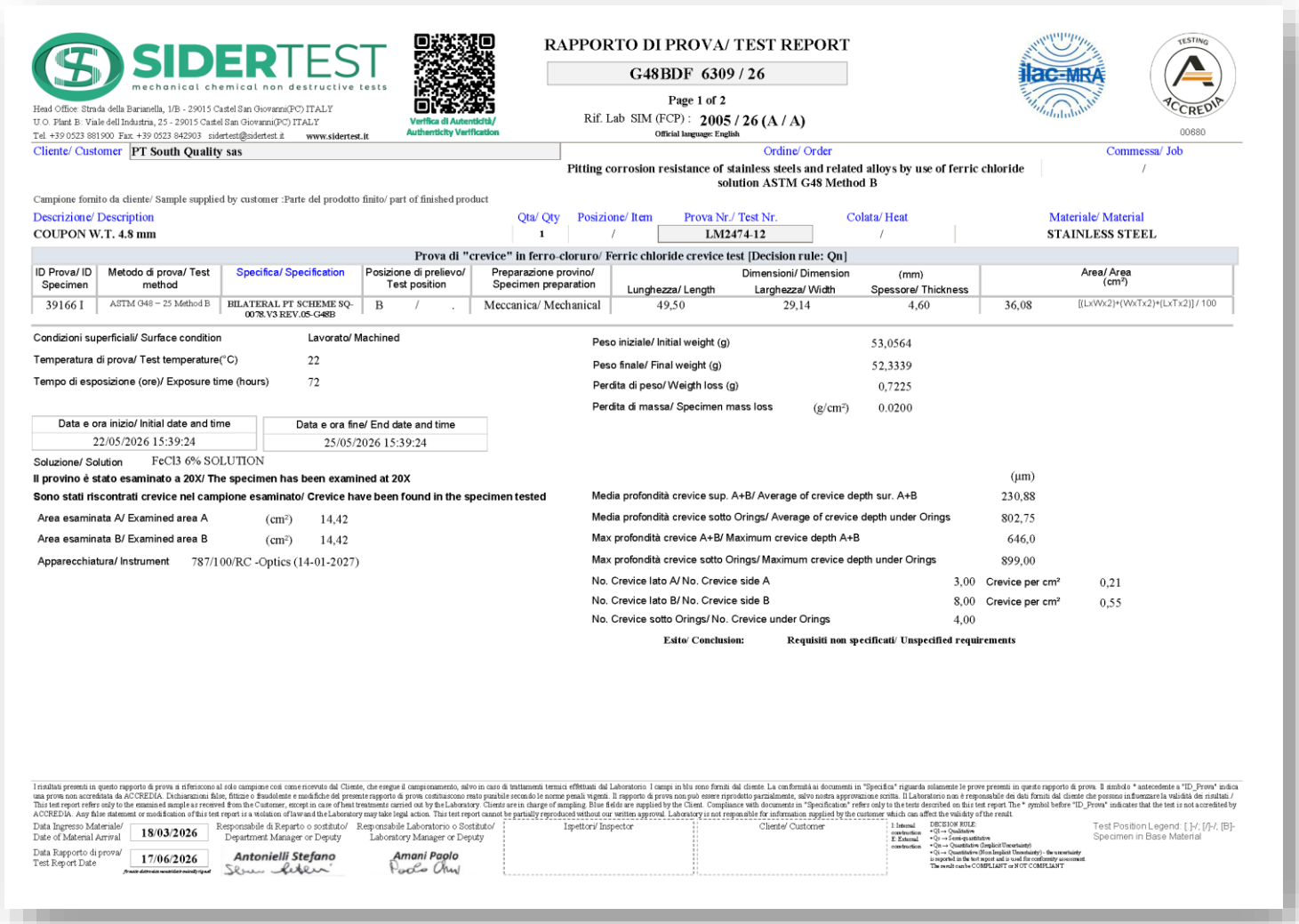


LM2699-09 Crevice details at 20X, side B



APPENDIX B

PARTICIPANT RESULTS (TR #G48BDF 6309 / 26)



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RAPPORTO DI PROVA/ TEST REPORT

G48BDF 6309 / 26

Page 1 of 2

Rif. Lab SIM (FCP) : **2005 / 26 (A / A)**

Official language: English

00680

Cliente/ Customer: **PT South Quality sas**

Ordine/ Order: **Pitting corrosion resistance of stainless steels and related alloys by use of ferric chloride solution ASTM G48 Method B**

Commessa/ Job: /

Campione fornito da cliente/ Sample supplied by customer :Parte del prodotto finito/ part of finished product

Descrizione/ Description	Qta/ Qty	Posizione/ Item	Prova Nr./ Test Nr.	Colata/ Heat	Materiale/ Material
COUPON W.T. 4.8 mm	1	/	LM2474-12	/	STAINLESS STEEL

Prova di "crevice" in ferro-cloruro/ Ferric chloride crevice test [Decision rule: Qn]

ID Prova/ ID Specimen	Metodo di prova/ Test method	Specifica/ Specification	Posizione di prelievo/ Test position	Preparazione provino/ Specimen preparation	Dimensioni/ Dimension (mm) Lunghezza/ Length	Larghezza/ Width	Spessore/ Thickness	Area/ Area (cm²)	
391661	ASTM G48 – 25 Method B	BILATERAL PT SCHEME SQ-0078.V3 REV.05-G48B	B / .	Meccanica/ Mechanical	49,50	29,14	4,60	36,08	[(LxWx2)+(WxTx2)+(LxTx2)] / 100

Condizioni superficiali/ Surface condition	Lavorato/ Machined	Peso iniziale/ Initial weight (g)	53,0564
Temperatura di prova/ Test temperature(°C)	22	Peso finale/ Final weight (g)	52,3339
Tempo di esposizione (ore)/ Exposure time (hours)	72	Perdita di peso/ Weigth loss (g)	0,7225
		Perdita di massa/ Specimen mass loss (g/cm²)	0.0200

Data e ora inizio/ Initial date and time	Data e ora fine/ End date and time
22/05/2026 15:39:24	25/05/2026 15:39:24

Soluzione/ Solution: FeCl3 6% SOLUTION

Il provino è stato esaminato a 20X/ The specimen has been examined at 20X

Sono stati riscontrati crevice nel campione esaminato/ Crevice have been found in the specimen tested

			(µm)
Area esaminata A/ Examined area A	(cm²)	14,42	
Area esaminata B/ Examined area B	(cm²)	14,42	
Apparecchiatura/ Instrument		787/100/RC -Optics (14-01-2027)	
Media profondità crevice sup. A+B/ Average of crevice depth sur. A+B			230,88
Media profondità crevice sotto Orings/ Average of crevice depth under Orings			802,75
Max profondità crevice A+B/ Maximum crevice depth A+B			646,0
Max profondità crevice sotto Orings/ Maximum crevice depth under Orings			899,00
No. Crevice lato A/ No. Crevice side A		3,00 Crevice per cm²	0,21
No. Crevice lato B/ No. Crevice side B		8,00 Crevice per cm²	0,55
No. Crevice sotto Orings/ No. Crevice under Orings		4,00	

Esito/ Conclusion: Requisiti non specificati/ Unspecified requirements

I risultati presenti in questo rapporto di prova si riferiscono al solo campione così come ricevuto dal Cliente, che eseguì il campionamento, salvo in caso di trattamenti termici effettuati dal Laboratorio. I campi in blu sono forniti dal cliente. La conformità ai documenti in "Specifica" riguarda esclusivamente le prove presenti in questo rapporto di prova. Il simbolo * antecedente a "ID_Prova" indica una prova non accreditata da ACCREDIA. Dichiarazioni false, fittizie o fraudolente e modifiche del presente rapporto di prova costituiscono reato punibile secondo le norme penali vigenti. Il rapporto di prova non può essere riprodotto parzialmente, salvo nostra approvazione scritta. Il Laboratorio non è responsabile dei dati forniti dal cliente che possono influenzare la validità dei risultati. / This test report refers only to the examined sample as received from the Customer, except in case of heat treatments carried out by the Laboratory. Clients are in charge of sampling. Blue fields are supplied by the Client. Compliance with documents in "Specification" refers only to the tests described on this test report. The * symbol before "ID_Prova" indicates that the test is not accredited by ACCREDIA. Any false statement or modification of this test report is a violation of law and the Laboratory may take legal action. This test report cannot be partially reproduced without our written approval. Laboratory is not responsible for information supplied by the customer which can affect the validity of the result.

Data Ingresso Materiale/ Date of Material Arrival: 18/03/2026

Data Rapporto di prova/ Test Report Date: 17/06/2026

Responsabile di Reparto o sostituto/ Department Manager or Deputy: Antonielli Stefano

Responsabile Laboratorio o Sostituto/ Laboratory Manager or Deputy: Amani Paolo

Ispettore/ Inspector

Cliente/ Customer

I: Internal contraction
E: External contraction

DECISION RULE:
•Ql → Qualitative
•Qs → Semi-quantitative
•Qn → Quantitative (Explicit Uncertainty)
•Qi → Quantitative (Non Implicit Uncertainty) - the uncertainty is reported in the test report and is used for conformity assessment. The result can be COMPLIANT or NOT COMPLIANT.

Test Position Legend: [.]-/. [/]-/. [B]- Specimen in Base Material

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RAPPORTO DI PROVA/ TEST REPORT

G48BDF 6309 / 26

Rif. Lab SIM (FCP) : **2005 / 26 (A / A)**

Official language: English

00680

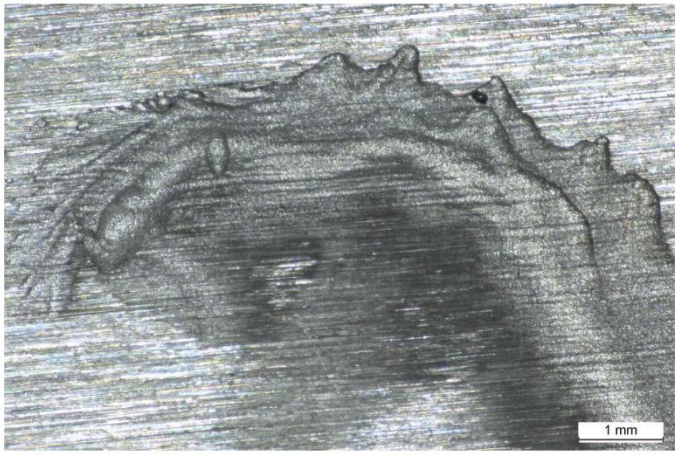
Cliente/ Customer	Ordine/ Order	Commessa/ Job
PT South Quality sas	Pitting corrosion resistance of stainless steels and related alloys by use of ferric chloride solution ASTM G48 Method B	/

Campione fornito da cliente/ Sample supplied by customer :Parte del prodotto finito/ part of finished product

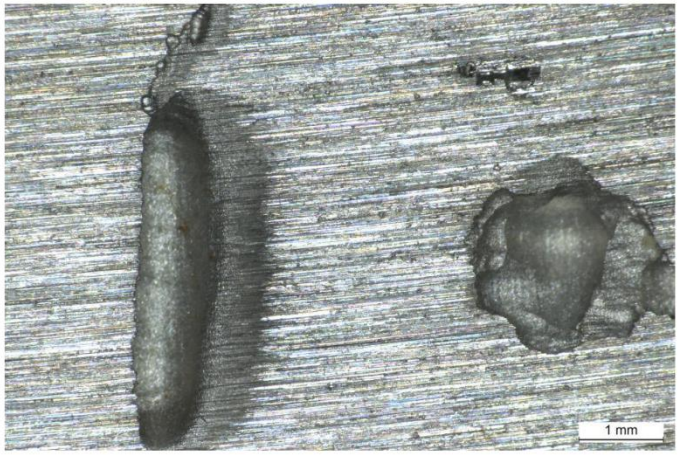
Descrizione/ Description	Qta/ Qty	Posizione/ Item	Prova Nr./ Test Nr.	Colata/ Heat	Materiale/ Material
COUPON W.T. 4.8 mm	1	/	LM2474-12	/	STAINLESS STEEL

CREVICES FOUND IN THE SPECIMEN TESTED AT 20 X

Side A



Side B



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Data Ingresso Materiale/ Date of Material Arrival	Responsabile di Reparto o sostituto/ Department Manager or Deputy	Responsabile Laboratorio o Sostituto/ Laboratory Manager or Deputy	Ispettori/ Inspector	Cliente/ Customer
18/03/2026	Antonielli Stefano	Amani Paolo		
Data Rapporto di prova/ Test Report Date: 17/06/2026				

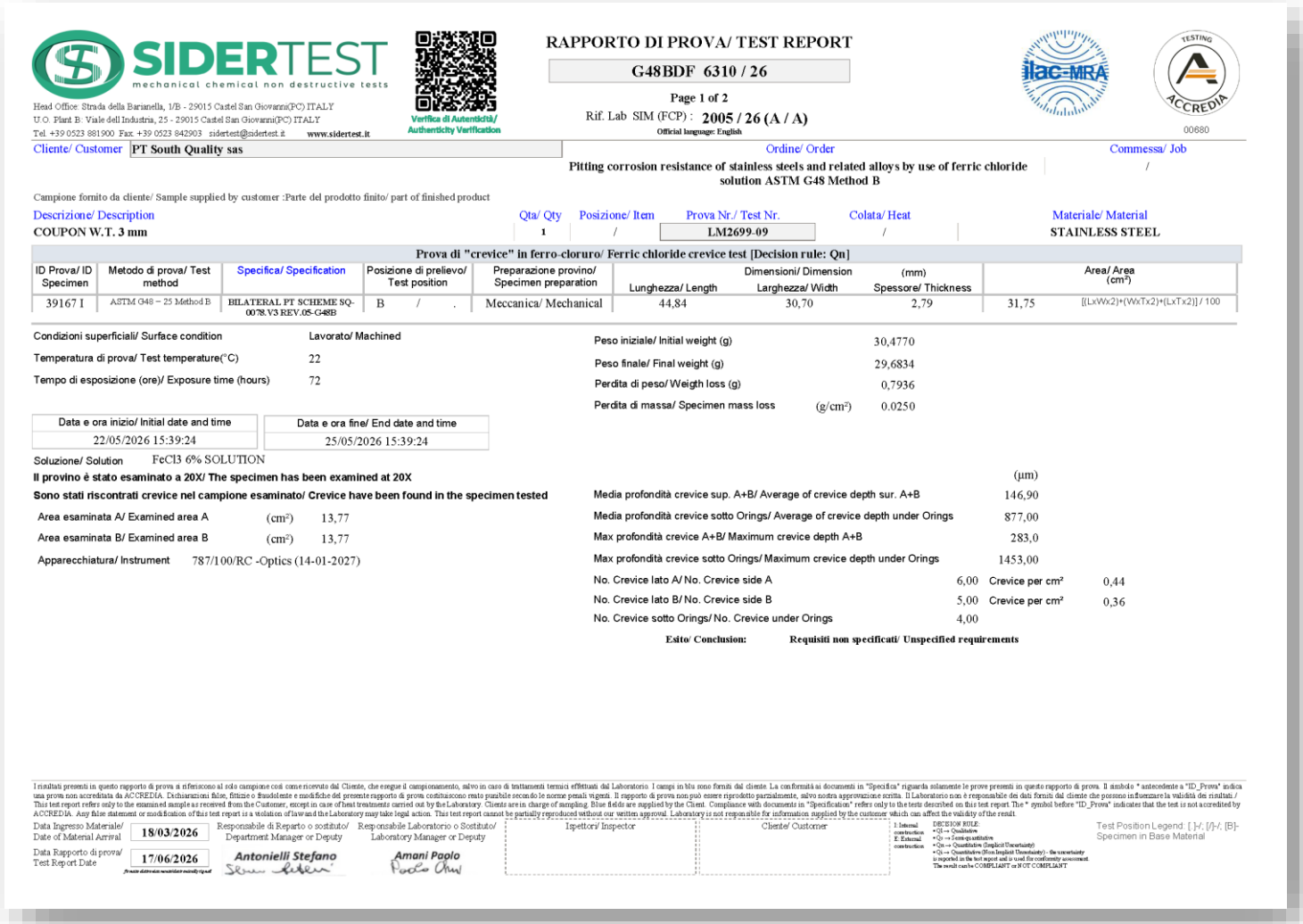
I: Internal contruction
E: External contruction

DECISION RULE:
- Ql → Qualitative
- Qs → Semi-quantitative
- Qn → Quantitative (Implicit Uncertainty)
- Qn → Quantitative (Non Implicit Uncertainty) - the uncertainty is reported in the test report and is used for conformity assessment. The result can be COMPLIANT or NOT COMPLIANT

Test Position Legend: [.]-/; [/]-/; [B]-
Specimen in Base Material

APPENDIX C

PARTICIPANT RESULTS (TR #G48BDF 6310 / 26)



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RAPPORTO DI PROVA/ TEST REPORT

G48BDF 6310 / 26

Page 1 of 2

Rif. Lab SIM (FCP) : **2005 / 26 (A / A)**

Official language: English

00680

Cliente/ Customer: **PT South Quality sas**

Ordine/ Order: **Pitting corrosion resistance of stainless steels and related alloys by use of ferric chloride solution ASTM G48 Method B**

Commessa/ Job: /

Campione fornito da cliente/ Sample supplied by customer :Parte del prodotto finito/ part of finished product

Descrizione/ Description	Qta/ Qty	Posizione/ Item	Prova Nr./ Test Nr.	Colata/ Heat	Materiale/ Material
COUPON W.T. 3 mm	1	/	LM2699-09	/	STAINLESS STEEL

Prova di "crevice" in ferro-cloruro/ Ferric chloride crevice test [Decision rule: Qn]

ID Prova/ ID Specimen	Metodo di prova/ Test method	Specifica/ Specification	Posizione di prelievo/ Test position	Preparazione provino/ Specimen preparation	Dimensioni/ Dimension (mm) Lunghezza/ Length	Larghezza/ Width	Spessore/ Thickness	Area/ Area (cm²)	
39167 I	ASTM G48 – 25 Method B	BILATERAL PT SCHEME SQ-0078.V3 REV.05-G48B	B / .	Meccanica/ Mechanical	44,84	30,70	2,79	31,75	[(LxWx2)+(WxTx2)+(LxTx2)] / 100

Condizioni superficiali/ Surface condition	Lavorato/ Machined
Temperatura di prova/ Test temperature(°C)	22
Tempo di esposizione (ore)/ Exposure time (hours)	72

Peso iniziale/ Initial weight (g)		30,4770
Peso finale/ Final weight (g)		29,6834
Perdita di peso/ Weigth loss (g)		0,7936
Perdita di massa/ Specimen mass loss	(g/cm²)	0.0250

Data e ora inizio/ Initial date and time	Data e ora fine/ End date and time
22/05/2026 15:39:24	25/05/2026 15:39:24

Soluzione/ Solution: FeCl3 6% SOLUTION

Il provino è stato esaminato a 20X/ The specimen has been examined at 20X

Sono stati riscontrati crevice nel campione esaminato/ Crevice have been found in the specimen tested

Area esaminata A/ Examined area A	(cm²)	13,77
Area esaminata B/ Examined area B	(cm²)	13,77
Apparecchiatura/ Instrument		787/100/RC -Optics (14-01-2027)

	(µm)		
Media profondità crevice sup. A+B/ Average of crevice depth sur. A+B	146,90		
Media profondità crevice sotto Orings/ Average of crevice depth under Orings	877,00		
Max profondità crevice A+B/ Maximum crevice depth A+B	283,0		
Max profondità crevice sotto Orings/ Maximum crevice depth under Orings	1453,00		
No. Crevice lato A/ No. Crevice side A	6,00	Crevice per cm²	0,44
No. Crevice lato B/ No. Crevice side B	5,00	Crevice per cm²	0,36
No. Crevice sotto Orings/ No. Crevice under Orings	4,00		

Esito/ Conclusion: Requisiti non specificati/ Unspecified requirements

I risultati presenti in questo rapporto di prova si riferiscono al solo campione così come ricevuto dal Cliente, che eseguе il campionamento, salvo in caso di trattamenti termici effettuati dal Laboratorio. I campi in blu sono forniti dal cliente. La conformità ai documenti in "Specifica" riguarda esclusivamente le prove presenti in questo rapporto di prova. Il simbolo * antecedente a "ID_Prova" indica una prova non accreditata da ACCREDIA. Dichiarazioni false, fittizie o fraudolente e modifiche del presente rapporto di prova costituiscono reato punibile secondo le norme penali vigenti. Il rapporto di prova non può essere riprodotto parzialmente, salvo nostra approvazione scritta. Il Laboratorio non è responsabile dei dati forniti dal cliente che possono influenzare la validità dei risultati. / This test report refers only to the examined sample as received from the Customer, except in case of heat treatments carried out by the Laboratory. Clients are in charge of sampling. Blue fields are supplied by the Client. Compliance with documents in "Specification" refers only to the tests described on this test report. The * symbol before "ID_Prova" indicates that the test is not accredited by ACCREDIA. Any false statement or modification of this test report is a violation of law and the Laboratory may take legal action. This test report cannot be partially reproduced without our written approval. Laboratory is not responsible for information supplied by the customer which can affect the validity of the result.

Data Ingresso Materiale/ Date of Material Arrival: 18/03/2026

Data Rapporto di prova/ Test Report Date: 17/06/2026

Responsabile di Reparto o sostituto/ Department Manager or Deputy: Antonielli Stefano

Responsabile Laboratorio o Sostituto/ Laboratory Manager or Deputy: Amani Paolo

Ispettori/ Inspector

Cliente/ Customer

I: Internal contraction E: External contraction

DECISION RULE: •Ql → Qualitative •Qs → Semi-quantitative •Qn → Quantitative (Implicit Uncertainty) •Qi → Quantitative (Non Implicit Uncertainty) - the uncertainty is reported in the test report and is used for conformity assessment. The result can be COMPLIANT or NOT COMPLIANT

Test Position Legend: [.]-/. [/]-/. [B]- Specimen in Base Material

SIDERTEST
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Verifica di Autenticità/ Authenticity Verification

RAPPORTO DI PROVA/ TEST REPORT

G48BDF 6310 / 26

Rif. Lab SIM (FCP) : **2005 / 26 (A / A)**

Official language: English

00680

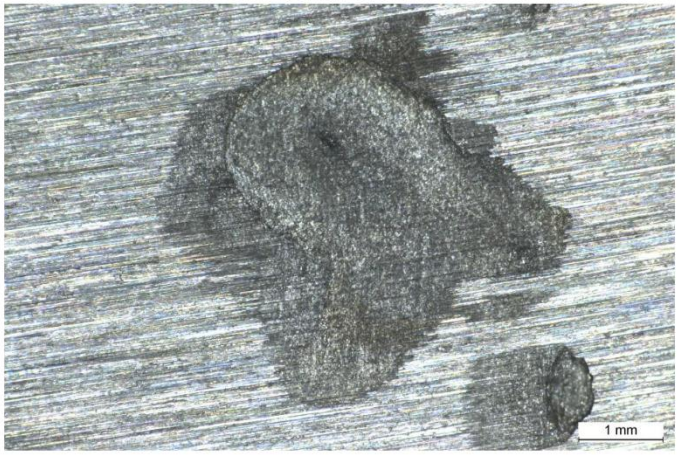
Cliente/ Customer	Ordine/ Order	Commessa/ Job
PT South Quality sas	Pitting corrosion resistance of stainless steels and related alloys by use of ferric chloride solution ASTM G48 Method B	/

Campione fornito da cliente/ Sample supplied by customer :Parte del prodotto finito/ part of finished product

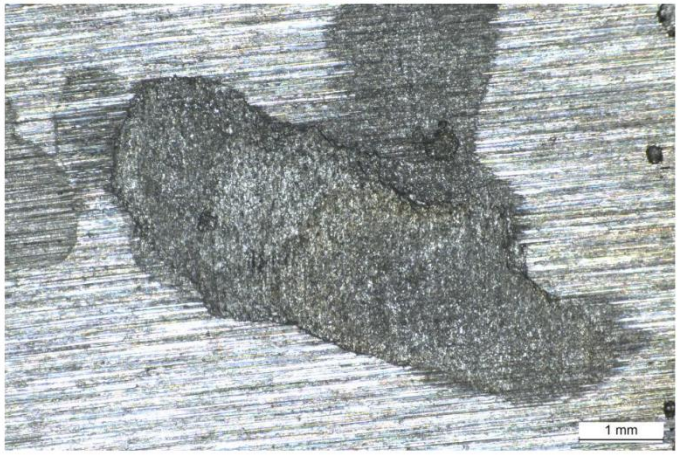
Descrizione/ Description	Qta/ Qty	Posizione/ Item	Prova Nr./ Test Nr.	Colata/ Heat	Materiale/ Material
COUPON W.T. 3 mm	1	/	LM2699-09	/	STAINLESS STEEL

CREVICES FOUND IN THE SPECIMEN TESTED AT 20 X

Side A



Side B



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Data Ingresso Materiale/ Date of Material Arrival	Responsabile di Reparto o sostituto/ Department Manager or Deputy	Responsabile Laboratorio o Sostituto/ Laboratory Manager or Deputy	Ispettori/ Inspector	Cliente/ Customer
18/03/2026	Antonielli Stefano	Amani Paolo		
Data Rapporto di prova/ Test Report Date: 17/06/2026				

I: Internal contruction
E: External contruction

DECISION RULE:
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Test Position Legend: [.]-/; [/]-/; [B]- Specimen in Base Material

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