



CUSTOMER

VETRERIA ETRUSCA S.P.A.

VIA MAREMMANA, 70 50056 MONTELUPO FIORENTINO FI

SAMPLE NAME - AS PROVIDED BY THE CUSTOMER

VERDETRUSCO GLASS

INDEX OF TEST REPORT

Determination of PFAS (Per- and polyfluorinated alkyl substances) according to Article 5 PPWR (Packaging and Packaging Waste Regulations)

MURANO

07.04.2026

CONFIRMATION

Your mail of 17/02/2026

SAMPLE

Glass Container

SAMPLED BY

Client

RECEIVED ON

27.02.2026

BY

CARRIER

TEST CARRIED OUT IN

Murano

FROM

03.03.2026

TO

07.04.2026

REPORT BY

Dr. Tommaso Degan

THE LABORATORIES DIRECTOR

Dr. Nicola Favaro

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Dr. Martina Scarpa
Chemical Lab Manager
digitally signed on behalf of Nicola Favaro
certificate issued by INFOCAMERE QES, N. 7420106008324966

**Stazione Sperimentale del Vetro S.c.p.A.
The Glass Research Centre**

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P.I. IT04176390278 - spevetro@spevetro.it - www.spevetro.it



Determination of PFAS (Per- and polyfluorinated alkyl substances) according to Article 5 PPWR (Packaging and Packaging Waste Regulations)

Determination of per- and polyfluorinated alkyl substances (PFAS) – points 5a and 5b, Article 5 PPWR

The sample is washed with solvent and the fluorinated organic substances (PFAS) content determined on the extracted solutions by LC-MS.

PARAMETERS	CAS	UM	LOQ (Limit Of Quantification)	RESULT	METHOD
PFOS	1763-23-1	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFOA	335-67-1	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFBA	375-22-4	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFBS	375-73-5	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFDeA	335-76-2	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFHpS	375-92-8	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFDoA	307-55-1	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFHpA	375-85-9	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFHxA	307-24-4	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFHxS	355-46-4	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFNA	375-95-1	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFPeA	2706-90-3	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFUnA	2058-94-8	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFTeDA	376-06-7	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFTrDA	72629-94-8	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
N-ADONA	958445-44-8	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
Gen X (Perfluoro-2-methyl-3-oxahexanoic acid)	13252-13-6	µg/kg	25	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
C6O4	1190931-41-9	µg/kg	25	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
9CI-PF3ONS (F-53B)	73606-19-6	µg/kg	25	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFNS	98789-57-2	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFDS	335-77-3	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFUndS	749786-16-1	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFDoS	79780-39-5	µg/kg	5	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]
PFTrDS	791563-89-8	µg/kg	25	< LOQ	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified) [#]

Stazione Sperimentale del Vetro S.c.p.A. The Glass Research Centre

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PARAMETERS	CAS	UM	LOQ (Limit Of Quantification)	RESULT	METHOD
Sum of PFAS		µg/kg		< 250	Internal Method 502 LAC/MI/16-13 (ASTM D-7968-23 modified)*

* ASTM D-7968-23 method has been modified to accommodate glass containers rather than the originally intended soil matrix.

Determination of total fluorine in glass – point 5c, Article 5 PPWR

The sample is ground and the total fluorine content determined by combustion and subsequent ion chromatographic analysis.

PARAMETERS	UM	LOQ (Limit Of Quantification)	RESULT	METHOD
Total fluorine content	mg/kg	10	13	Internal Method 502 LAC/MI/16-13 (IEC 62321-3-2:2020 modified)**

** IEC method 62321-3-2:2020 has been modified to accommodate glass containers rather than the polymers originally intended. Total fluorine does not account the inorganic fluorine present in the bulk as constituent of the amorphous network which cannot be related to PFAS and the provisions of Article 5 of the PPWR.

Conformity Assessment

PARAMETERS	UM	REGULATION LIMITS	REFERENCE ON ARTICLE 5 PPWR	CONFORMITY ASSESSMENT
Named PFAS	µg/kg	25	Point 5a	PASS
Sum of PFAS	µg/kg	250	Point 5b	PASS
Total fluorine content	mg/kg	50	Point 5c	PASS

Decision rules adopted: comparison between the results and the reference values, without considering the measurement's confidence interval.

Test carried out by an external laboratory

--- END OF THE TEST REPORT ---

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EXTRA-FLINT GLASS

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DECLARATION OF CONFORMITY OF THE CONTAINERS SUPPLIED TO YOU AND DESTINED TO COME INTO CONTACT WITH FOODSTUFFS

We hereto declare that articles produced in 2026 year, supplied to you, comply with:

- The following EU legislation ruling 1935/04
- The following Italian legislation:
 - o DPR 777/82 and subsequent updates and amendments
 - o Ministerial Decree 21/03/73 and subsequent updates and amendments

The glass containers have been manufactured, stored and handled according to GMP (Good Manufacturing Practice) in accordance with EU regulation 2023/06 and subsequent updates and amendments.

Moreover transfer, migration and quality tests are carried out on the containers we produce and we adopt the following measures to prevent pollution by:

- Metals through magnet and quality control machines
- Glass through quality control machines
- Wood, plastic and other foreign particles through quality control machines and container tipers
- Pests through pest controls

Vetreria Etrusca S.p.A.

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Società soggetta a direzione e
coordinamento di Barfin S.p.A.

Furthermore, with reference to Regulation (EU) 2025/40 of the European Parliament and of the Council of 19/12/2024, it is declared that:

- The above mentioned glass containers comply with the PFAS limit values indicated in Article 5 of that Regulation.
- The above mentioned glass containers comply with the sum of heavy metals (lead, cadmium, mercury, hexavalent chromium) indicated in Article 5, point 4, with the exemption of exceeding the 100 mg/kg limit for glass pursuant to Commission Decision 2001/171/EC of 19/12/2001 for the use of recycled glass cullet.

This validation will be replaced in the event of substantial changes in the manufacturing methods such as to alter the essential requisite regarding conformity or where the legislation mentioned above is amended or updated in such a way as to require renewed verification of conformity.

Contact us for any further clarification you might require.

Altare, 1 July 2026

Quality Team

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