TEST REPORT

2025AN1278

DATE OF RECEPTION
Date Format: dd/MM/yyyy 29/04/2025

DATE TESTS
Starting: 08/05/2025
Ending: 23/05/2025

APPLICANT

SAFECO
172, AVENUE DE L'EUROPE
FR-13760 SAINT CANNAT
Francia

Att. Salvador Barbera

IDENTIFICATION AND DESCRIPTION OF SAMPLES

Reference by AITEX	Reference by customer	AITEX sample description
2025AN1278-S01	Tejido Ultraclean	Fabric

TESTS CARRIED OUT

- COLOUR FASTNESS TO ARTIFICIAL LIGHT.
- DETERMINATION OF THE ABRASION RESISTANCE OF FABRICS.
- DETERMINATION OF FABRIC PROPENSITY TO SURFACE PILLING, FUZZING OR MATTING.
- DETERMINATION OF PERFLUORINATED COMPOUNDS (PFC'S)*.

Tests marked with * are not included within the scope of the ENAC accreditation.

ENSAYO
ISO 17025
Nº12 / LE025

DESCRIPTION OF SAMPLES

Reference by AITEX*:* 2025AN1278-S01

Reference by customer*:*

Tejido Ultraclean

AITEX sample description*:*

Tejido

RESULTS

COLOUR FASTNESS TO ARTIFICIAL LIGHT

Standard
EN ISO 105-B02:2014. Method 2

Apparatus
Xenotest 440 02423E06

Starting test date
09/05/2025

Ending test date
23/05/2025

Exposure conditions
Normal

Evaluation conditions
Light camera Gretagmacbeth (02021N06)

Reference	Light fastness
2025AN1278-S01	4

Remark
The fastness grade indicated comes up to:
- Depth change: More clear
- Hue change: No notes
- Brightness change: No notes

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MEANING OF COLOUR VALUES FASTNESS TO ARTIFICIAL LIGHT

VALUE	MEANING
8	EXCELLENT
7	VERY GOOD
6	GOOD
5	MODERATE
4	FAIR
3	POOR BEHAVIOUR
2	POOR BEHAVIOUR
1	VERY POOR

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RESULTS

DETERMINATION OF THE ABRASION RESISTANCE OF FABRICS

Standard
EN ISO 12947-2:2016

Apparatus
Martindale Abrasion Tester

Initial and ending test date
08/05/2025 - 19/05/2025

Atmosphere for conditioning and testing according accordance EN ISO 139:2005/A1:2011
Temperature (20±2) ºC **Relative humidity** (65±4) %

Testing conditions
Rubbing against SM-25 abradant fabric

Technical characteristics of the sample
Not indicated by the client

Testing pressure
9 kPa

Type of fabric
Pile fabric

End point
Fully worn off area

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Reference

2025AN1278-S01

Specimens	No. of cycles in the inspection interval before the end of the test is reached
3	>100000
3	>100000
3	>100000
Lowest individual result	**>100000**

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RESULTS

DETERMINATION OF FABRIC PROPENSITY TO SURFACE PILLING, FUZZING OR MATTING

Standard
EN ISO 12945-2:2020

Apparatus
Martindale Abrasion Tester

Conditioning date	09/05/2025	**Test date**	12/05/2025

Type of fabric
Woven fabric

Atmosphere for conditioning and testing

Temperature	(20±2) ºC	**Relative humidity**	(65±4) %
Nº of specimens	3	**Number of observers**	3
Testing pressure	415±2 g	**Testing conditions**	Fabric vs fabric

Reference
2025AN1278-S01

Pilling degree

Cycles	Specimen 1	Specimen 2	Specimen 3	Average
125	5	5	5	5
500	5	5	5	5
1000	5	5	5	5
2000	5	5	5	5

Fuzzing degree

Cycles	Specimen 1	Specimen 2	Specimen 3	Average
125	5	5	5	5
500	5	5	5	5
1000	5	5	5	5
2000	5	5	5	5

Remark
Due to the kind of no felting tissue, value of matting has not been considered.

TABLE 1 - CLASSIFICATION SCHEME PILLING	
CLASS	**DESCRIPTION**
5	No change
4	Slight surface pilling. Partially formed pills
3	Moderate pillings: Pills of carying size and density partially covering the specimen surface
2	Distinct pilling: Pills of varying size and density covering a large proportion of the specimen
1	Severe pilling: Pills of varying and density covering the whole of the specimen surface

TABLE 2 - CLASSIFICATION SCHEME FUZZING	
CLASS	**DESCRIPTION**
5	No change
4	Slight surface fuzzing
3	Moderate surface fuzzing
2	Distinct surface fuzzing
1	Dense surface fuzzing

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RESULTS

DETERMINATION OF PERFLUORINATED COMPOUNDS (PFC'S)*

Standard
With reference to FprEN 17681-1:2024

Testing Method
HPLC/MS/MS

Testing dates

Initial date	Final date
09/05/2025	12/05/2025

Reference
2025AN1278-S01

Sustance	CAS No	Units	Result
PFOS and related substances:			
Perfluorooctanesulfonic acid (PFOS)[a]	1763-23-1	µg/m²	N.D.
Perfluorooctane sulfonamide (PFOSA)	754-91-6	µg/m²	N.D.
Perfluorooctane sulfonfluoride (PFOSF)	307-35-7	µg/m²	N.D.
N-Methyl-perfluorooctane sulfonamide (N-Me-FOSA)	31506-32-8	µg/m²	N.D.
N-Ethyl-perfluorooctane sulfonamide (N-Et-FOSA)	4151-50-2	µg/m²	N.D.
N-Methyl-perfluorooctane sulfonamide-ethanol (N-Me-FOSE)	24448-09-7	µg/m²	N.D.
N-Ethyl-perfluorooctane sulfonamide-ethanol (N-Et-FOSE)	1691-99-2	µg/m²	N.D.
PFOA and its salts:			
Perfluorooctanoic acid (PFOA)[a]	335-67-1	µg/Kg	N.D.
PFOA and related substances:			
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)[d]	678-39-7	µg/Kg	N.D.
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)[c]	27905-45-9	µg/Kg	N.D.
1H,1H,2H,2H-Perfluorodecyl methacrylate (8.2 FTMA)[c]	1996-88-9	µg/Kg	N.D.
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	µg/Kg	N.D.
Methyl perfluorooctanoate (Me-PFOA)[b]	376-27-2	µg/Kg	N.D.
Ethyl perfluorooctanoate (Et-PFOA)[b]	3108-24-5	µg/Kg	N.D.
2H,2H-Perfluorodecanoic acid (H2PFDA)	27854-31-5	µg/Kg	N.D.
PFCA C9- C14 and its salts:			
Perfluorononanoic Acid (PFNA)[a]	375-95-1	µg/Kg	N.D.
Perfluorodecanoic Acid (PFDA)	335-76-2	µg/Kg	N.D.
Henicosafluoroundecanoic Acid (PFUdA)	2058-94-8	µg/Kg	N.D.
Tricosafluorododecanoic Acid (PFDoA)	307-55-1	µg/Kg	N.D.
Pentacosafluorotridecanoic Acid (PFTrDA)	72629-94-8	µg/Kg	N.D.
Heptacosafluorotetradecanoic Acid (PFTeDA)	376-06-7	µg/Kg	N.D.
Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA)	172155-07-6	µg/Kg	N.D.
PFCA C9- C14 related substances:			
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)[c]	17741-60-5	µg/Kg	N.D.
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)[c]	2144-54-9	µg/Kg	N.D.
1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1	µg/Kg	N.D.
2H,2H,3H,3H-Perufloroundecanoic acid (H4PFUnA)	34598-33-9	µg/Kg	N.D.
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	µg/Kg	N.D.
1H,1H,2H,2H-Perfluorododecanesulphonic acid (10:2 FTS)	120226-60-0	µg/Kg	N.D.

Sustance	CAS No	Units	Result
Perfluorodecane sulfonic acid (PFDS)	335-77-3	µg/Kg	N.D.
2- Perfluorocylethanol (8:2 FTOH)[d]	678-39-7	µg/Kg	N.D.
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)[c]	27905-45-9	µg/Kg	N.D.
PFHxS and its salts:			
Perfluorohexane Sulfonic acid (PFHxS)[a]	355-46-4	µg/Kg	N.D.
PFHxS related substances:			
N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)	68259-15-4	µg/Kg	N.D.
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	µg/Kg	N.D.
PFHxA and its salts:			
Undecafluorohexanoic acid (PFHxA)[a]	307-24-4	µg/Kg	N.D.
PFHxA related substances:			
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTS)	27619-97-2	µg/Kg	N.D.
1H,1H,2H,2H-perfluoro-1-octanol (6:2 FTOH)	647-42-7	µg/Kg	N.D.
1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA)[c]	17527-29-6	µg/Kg	N.D.
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)[c]	2144-53-8	µg/Kg	N.D.
Perfluoro heptanoic acids:			
Perfluoroheptanoic acid (PFHpA)	375-85-9	µg/Kg	N.D.
7H-Perfluorheptanoic acid (7HPFHpA)	1546-95-8	µg/Kg	N.D.
C4-C5 Perfluoro carboxylic acids:			
Perfluorobutanoic acid (PFBA)	375-22-4	µg/Kg	N.D.
Perfluoropentanoic acid (PFPeA)	2706-90-3	µg/Kg	N.D.
C4-C5 Perfluoro carboxylic acids related substances:			
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	µg/Kg	N.D.
Perfluoro-2-propoxypropanoic acid its saltsb and derivatives:			
Perfluoro-2-propoxypropanoic acid (HPFO-DA)	13252-13-6	µg/Kg	N.D.
Further PFAS:			
Perfluorobutane sulfonic acid and salts (PFDS)	375-73-5	µg/Kg	N.D.
Perfluoroheptane sulfonic acid and salts (PFHpS)	375-92-8	µg/Kg	N.D.

Observation

Notes

[a] Salts cannot be identified by the method described in this document and only be quantified as the corresponding acid.
[b] Substance is hydrolysed and releases PFOA. It contributes to the amount of PFOA if present in the sample.
[c] Substance is hydrolysed and releases related fluorotelomer alcohols (n:2 FTOH) when treated with methanol/sodium hydroxide solution. It contributes to the amount of the related n:2 FTOH if present in the sample.
[d] 8:2 FTOH can degrade to PFOA and is thus a PFOA-related substance. It contains a C8F17C-moiety which is also characterized as a C9-C14 PFCA-related substance.

N.D.: Not detected
Limit of Quantification (LOQ):
PFOS, PFOSA, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE; 0.2 µg/m²
4:2 FTOH; 200 µg/kg
6:2 FTOH, 8:2 FTOH, 10:2 FTOH, 12:2 FTOH; 100 µg/kg
All other PFAS; 10 µg/kg

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Isabel Soriano
Laboratories and International Offices Subdirector

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