

Reference:

Determination of per and poly fluorinated compounds (PFCs)

Date of ending the test 11-04-2023
 Based on OEKO-TEX® (2022)
 Extraction method Ultrasonic extraction with methanol
 Analytical method GC/MS/MS
 Results
 Determination limit 0.10 mg/kg

Components	C (mg/kg)	CAS no	Acronym
1H,1H,2H,2H-perfluoro-1-hexanol	< 0.10	2043-47-2	4:2 FTOH
1H,1H,2H,2H-perfluoro-1-octanol	< 0.10	647-42-7	6:2 FTOH
* 1H,1H,2H,2H-perfluoro-1-decanol	< 0.10	678-39-7	8:2 FTOH
1H,1H,2H,2H-perfluoro-1-dodecanol	< 0.10	865-86-1	10:2 FTOH
1H,1H,2H,2H-perfluorooctyl acrylate	< 0.10	17527-29-6	6:2 FTA
* 1H,1H,2H,2H-perfluorodecyl acrylate	< 0.10	27905-45-9	8:2 FTA
1H,1H,2H,2H-perfluorododecyl acrylate	< 0.10	17741-60-5	10:2 FTA

* PFOA related substances

Perfluorooctane sulfonamide	< 1.0	754-91-6	PFOSA
Perfluorooctane sulfonfluoride	< 1.0	307-35-7	PFOSE/POSE
N-Methyl Perfluorooctane sulfonamide	< 1.0	31506-32-8	N-Me-FOSA
N-Ethyl Perfluorooctane sulfonamide	< 1.0	4151-50-2	N-Et-FOSA
N-Methyl Perfluorooctane sulfonamide ethanol	< 1.0	24448-09-7	N-Me-FOSE
N-Ethyl Perfluorooctane sulfonamide ethanol	< 1.0	1691-99-2	N-Et-FOSE
PFOS, PFOSA, PFOSE, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE; Sum	< 1.0		

Under observation

Components	C (mg/kg)	CAS no	Acronym
2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid	< 0.010	13252-13-, et.al.	HPFO-DA its salts and its acyl halides

Reference:

Determination of per and poly fluorinated compounds (PFCs)

Date of ending the test	11-04-2023
Based on	OEKO-TEX® (2022)
Deviation from the standard	
Extraction method	Methanol ultrasonic
Separation and detection	HPLC with ESI - LC/MS/MS
Results	
Determination limit	See table

Components	C (mg/kg)	CAS no	Acronym
perfluoro-n-octanoic acid	< 0.010	335-67-1, et.al.	PFOA and its salts
perfluoro-n-heptanoic acid	< 0.010	375-85-9, et.al.	PFHpA and its salts
perfluoro-n-nonanoic acid	< 0.010	375-95-1, et.al.	PFNA and its salts
perfluoro-n-decanoic acid	< 0.010	335-76-2, et.al.	PFDA and its salts
perfluoro-n-undecanoic acid	< 0.010	2058-94-8, et.al.	PFUnDA and its salts
perfluoro-n-dodecanoic acid	< 0.010	307-55-1, et.al.	PFDoA and its salts
perfluoro-n-tridecanoic acid	< 0.010	72629-94-8, et.al.	PFTTrDA and its salts
perfluoro-n-tetradecanoic acid	< 0.010	376-06-7, et.al.	PFTeDA and its salts
perfluoro-n-butanoic acid	< 0.010	375-22-4 et.al.	PFBA and its salts
perfluoro-n-pentanoic acid	< 0.010	2706-90-3, et.al.	PFPeA and its salts
perfluoro-n-hexanoic acid	< 0.010	307-24-4, et.al.	PFHxA and its salts
Perfluoro(3,7-dimethyloctanoic acid)	< 0.010	172155-07-6, et.al.	PF-3,7-DMOA and its salts
perfluoro-1-butane sulfonic acid	< 0.010	375-73-5; 59933-66-3, et.al.	PFBS and its salts
perfluoro-1-hexane sulfonic acid	< 0.010	355-46-4, et.al.	PFHxS and its salts
perfluoro-1-heptane sulfonic acid	< 0.010	375-92-8, et.al.	PFHpS and its salts
Heinicosafuorodecane sulfonic acid	< 0.010	335-77-3, et.al.	PFDS and its salts
7H-perfluoro heptanoic acid	< 0.010	1546-95-8, et.al.	7HPFHpA and its salts
2H,2H,3H,3H-perfluoroundecanoic acid	< 0.010	34598-33-9, et.al.	4HPFUnA and its salts
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid	< 0.010	27619-97-2, et.al.	1H, 1H, 2H, 2H-PFOS and its salts
* 1H,1H,2H,2H-perfluorodecane sulphonic acid	< 0.010	39108-34-4, et.al.	8:2 FTS and its salts

* PFOA related substances

Components	C (µg/m²)	CAS no	Acronym
Perfluorooctane sulfonic acid	< 1.0	1763-23-1, et.al.	PFOS and its sulfonates

Reference: [REDACTED] (pre and post-consumer waste; 25% external waste from PVC pipes)

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* 1H,1H,2H,2H-perfluoro-1-decanol	< 0.10	678-39-7	8:2 FTOH
1H,1H,2H,2H-perfluoro-1-dodecanol	< 0.10	865-86-1	10:2 FTOH
1H,1H,2H,2H-perfluorooctyl acrylate	< 0.10	17527-29-6	6:2 FTA
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1H,1H,2H,2H-perfluorododecyl acrylate	< 0.10	17741-60-5	10:2 FTA

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Perfluorooctane sulfonic acid	< 1.0	1763-23-1, et.al.	PFOS and its sulfonates
Perfluorooctane sulfonamide	< 1.0	754-91-6	PFOSA
Perfluorooctane sulfonyl fluoride	< 1.0	307-35-7	PFOSF/POSF
N-Methyl Perfluorooctane sulfonamide	< 1.0	31506-32-8	N-Me-FOSA
N-Ethyl Perfluorooctane sulfonamide	< 1.0	4151-50-2	N-Et-FOSA
N-Methyl Perfluorooctane sulfonamide ethanol	< 1.0	24448-09-7	N-Me-FOSE
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PFOS, PFOSA, PFOSF, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE: Sum	< 1.0		

Under observation

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2.3.3.3.-tetrafluoro-2-(heptafluoro propoxy)propionic acid	< 0.010	13252-13-, et.al.	HPFO-DA its salts and its acyl halides

Reference: [redacted] ref (pre and post-consumer waste)

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perfluoro-n-dodecanoic acid	< 0.010	307-55-1, et.al.	PFDoA and its salts
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perfluoro-n-tetradecanoic acid	< 0.010	376-06-7, et. al.	PFTeDA and its salts
perfluor-n-butanoic acid	< 0.010	375-22-4 et.al.	PFBA and its salts
perfluoro-n-pentanoic acid	< 0.010	2706-90-3, et.al.	PFPeA and its salts
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* PFOA related substances

Components	C (µg/m²)	CAS no	Acronym
Perfluorooctane sulfonic acid	< 1.0	1763-23-1, et.al.	PFOS and its sulfonates

Performed in the chemical lab under the responsibility of [REDACTED]



Your notice of
04-04-2023

Your reference

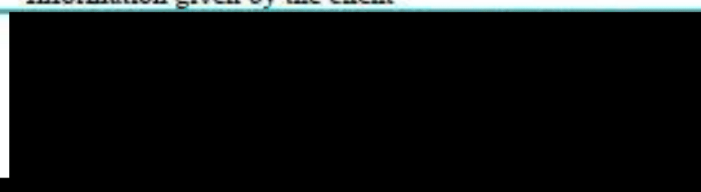
Date
12-04-2023

Analysis Report

Required tests :

OEKO-TEX® (2022)

Determination of per and poly fluorinated compounds (PFCs)

Sample id	Information given by the client	Date of receipt
T2308472		04-04-2023
		04-04-2023
T2308474		04-04-2023



Order responsible

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The results of the analysis cover the received samples. Centexbel is not responsible for the representativeness of the samples.
In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.