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Report no. 25.0022901 Rev. 1

from 7/1/2025

Order Date	6/2/2025
Period of Testing	6/4/2025 - 6/10/2025

Customer Reference

Order number PFAS testing in chainsaw protective cloth...

Aim of Test	**OEKO-TEX® STANDARD 100 Annex 4 product class II Edition 03.2025**
Testing Material	**Five samples**
Sampling	**The test object was sent to Hohenstein by the client.**

Your Contact Person	Lincoln Smith (lincoln@zenitec.co.nz) +64 3218 8899
Our Contact Person	Division Softlines (softlines@hohenstein.com)

Report Approval

Hohenstein Laboratories · Schloss Hohenstein ·

Neslihan Göcer, B. Eng.
Stellvertretende Teamleiterin | Deputy team leader Softlines

Katharina Loos
Bereichsleiterin Softlines / Division Manager Softlines

Summary

Passed

Please refer to the test overview for details.

Testing Material

1 Tape	
Customer information	Aramid Webbing
Color	Black
Material receipt	6/3/2025

2 Buckle	
Customer information	Buckles high temp nylon
Color	Black
Material composition	Synthetic
Material receipt	6/3/2025

3 Woven fabric	
Customer information	Chainsaw protective fabric
Color	White
Material receipt	6/3/2025

4 Woven fabric	
Customer information	Lining material
Color	Navy
Material receipt	6/3/2025

5 Woven fabric	
Customer information	Outer convering material
Color	Green
Material receipt	6/3/2025

Test Overview

PFAS, Per- and polyfluorinated compounds/per- and polyfluoroalkyl substances		
1 Tape	page 5	✓
2 Buckle	page 5	✓
3 Woven fabric	page 5	✓
4 Woven fabric	page 5	✓
5 Woven fabric	page 5	✓

Revision History

The current revision cancels and replaces the original version of the report and all previous revisions.

Rev.	Date	Approved By	Reason
	6/10/2025	Stefan Bantle, B. Eng.	Initial approval
1	7/1/2025	Neslihan Göcer, B. Eng.	Correction of the customer adress

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List of abbreviations

n.d. = not detectable

LOQ = Limit of quantitation

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Detail Results

PFAS, Per- and polyfluorinated compounds/per- and polyfluoroalkyl substances

The following results were evaluated against the limit values (LV):

I OEKO-TEX® STANDARD 100 Annex 4 product class II, 03.2025

	1	2	3	4	5	LOQ	LV
Perfluorooctanoic acid and salts (PFOA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Sum PFOA and salts [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	-	< 25
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 100	-
1H,1H,2H,2H-Perfluorodecane sulfonic acid and salts (8:2 FTS) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Sum PFOA related Substances [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	-	< 250
Perfluorononanoic acid and salts (PFNA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Perfluorodecanoic acid and salts (PFDA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Henicosafluoroundecanoic acid and salts (PFUdA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Tricosafluorododecanoic acid and salts (PFDoA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Pentacosafluorotridecananoic acid and salts (PFTrDA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Heptacosafluorotetradecanoic acid and salts (PFTeDA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Perfluoro(3,7-dimethyloctanoic acid) and salts (PF-3,7-DMOA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Perfluorobutanoic acid and salts (PFBA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Perfluoropentanoic acid and salts (PFPeA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Perfluorohexanoic acid and salts (PFHxA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Perfluoroheptanoic acid and salts (PFHpA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Sum C9-C14 PFCA and further PFCAs [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	-	< 25
Henicosafluorodecane sulfonic acid and salts (PFDS) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
2H,2H,3H,3H-Perfluoroundecanoic acid and salts (4HPFUnA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 100	-

	1	2	3	4	5	LOQ	LV
Sum C9-C14 PFCA related Substances [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	-	< 260
Perfluorooctane sulfonic acid and sulfonates (PFOS) [µg/m²]	n.d.	(V1)	n.d.	n.d.	n.d.	< 0.2	-
Perfluorooctane sulfonamide (PFOSA) [µg/m²]	n.d.	(V1)	n.d.	n.d.	n.d.	< 0.2	-
N-Methyl perfluorooctane sulfonamide (N-Me-FOSA) [µg/m²]	n.d.	(V1)	n.d.	n.d.	n.d.	< 0.2	-
N-Ethyl perfluorooctane sulfonamide (N-Et-FOSA) [µg/m²]	n.d.	(V1)	n.d.	n.d.	n.d.	< 0.2	-
N-Methyl perfluorooctane sulfonamide ethanol (N-Me-FOSE) [µg/m²]	n.d.	(V1)	n.d.	n.d.	n.d.	< 0.2	-
N-Ethyl perfluorooctane sulfonamide ethanol (N-Et-FOSE) [µg/m²]	n.d.	(V1)	n.d.	n.d.	n.d.	< 0.2	-
Sum PFOS and related [µg/m²]	n.d.	(V1)	n.d.	n.d.	n.d.	-	< 1.0
Sum PFHxA and salts [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	-	< 25
Sum PFHxA related substances [µg/kg]	n.d.	134	n.d.	n.d.	164	-	< 1000
Perfluorobutane sulfonic acid and salts (PFBS) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Perfluorohexane sulfonic acid and salts (PFHxS) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Perfluoroheptane sulfonic acid and salts (PFHpS) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Sum PFHxS and salts [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	-	≤ 25
Sum PFHxS related substances [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	-	≤ 1000
N-Methyl perfluorohexane sulfonamide [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Perfluorohexane sulfonamide [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
1H,1H,2H,2H-Perfluorooctane sulfonic acid and salts (6:2 FTS) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
7H-Perfluoro heptanoic acid and salts (7HPFHpA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 200	-
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) [µg/kg]	n.d.	134	n.d.	n.d.	164	< 100	-
2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid, its salts and ist acyl halides (HFPO-DA) [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	< 10	-
Sum Partially fluorinated carboxylic / sulfonic acids under observation [µg/kg]	n.d.	n.d.	n.d.	n.d.	n.d.	-	-
Sum Further PFAS [µg/kg]	n.d.	134	n.d.	n.d.	164	-	≤ 250

Footnotes	
Details of Values	**(V1):** not determinable

Additional details for this test

Parameter hints:

Testing method according to OEKO-TEX® STANDARD 100

Perfluorooctane sulfonfluoride (PFOSF / POSF) is determined as Perfluorooctane sulfonic acid and sulfonates (PFOS).

6:2 FTA is determined as 6:2 FTOH.

8:2 FTA is determined as 8:2 FTOH.

10:2 FTA is determined as 10:2 FTOH.

Result value details:

2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid, its salts and ist acyl halides (HFPO-DA)

Is under observation and the result is provided for information but presently not regulated

Sum Partially fluorinated carboxylic / sulfonic acids under observation

Is under observation and the result is provided for information but presently not regulated