

# Test Report

No.: VNLS2504012490TX-04

Date: May 20, 2025

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This report cancels and supersedes the report No. **VNLS2504012490TX-03** dated Apr 29, 2025 issued by SGS Vietnam Ltd.,

**ENGINEERED CUSTOM COATINGS**  
1002 HICKORY ST, PEWAUKEE, WI 53072

The following sample was submitted and identified on behalf of the client as:

Sample No.	Sample Description
A	41-0302Y/41-0302 CLEAR LIQUID DURABLE WATER REPELLENT

Color Submitted : /

Country of Origin : Vietnam

Country of Destination : Vietnam

Sample Receiving Date : Apr 16, 2025 PM. Confirmation date: Apr 21, 2025 & Apr 29, 2025 PM

Test Performing Period : Apr 21, 2025 – May 20, 2025

Performed Test Summary : Selected test(s) as requested by applicant against specified requirement.

Test Result(s) : Please refer to the next page(s).

Conclusion : **PASS**

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## Chemical Test:

## Overall Result

	<u>(A)</u>
Alkyl Phenols (AP) & Alkyl Phenol Ethoxylates (APEO)	M
Formaldehyde	M
Organotin Compounds	M
Total Fluorine	M
Phthalates	M
Total Heavy metal	M
VOCs	M
Total Arsenic	M
Total Lead	M
Total Cadmium	M
Total Organic Fluorine	N/A
Perfluorinated and Polyfluorinated Chemicals (PFAS)	M
Perfluorinated Compounds (PFCs)	M

Remarks: M = Meets Client's requirement  
 F = Below Client's requirement  
 D = Data Only  
 N/A = Not Applicable

Notes: Conclusions are based on the test result from the actual sampling of the received sample(s).

Signed for and on behalf of  
**SGS Vietnam LTD**



Thai Thuy Ngan  
 Softlines SBU Manager

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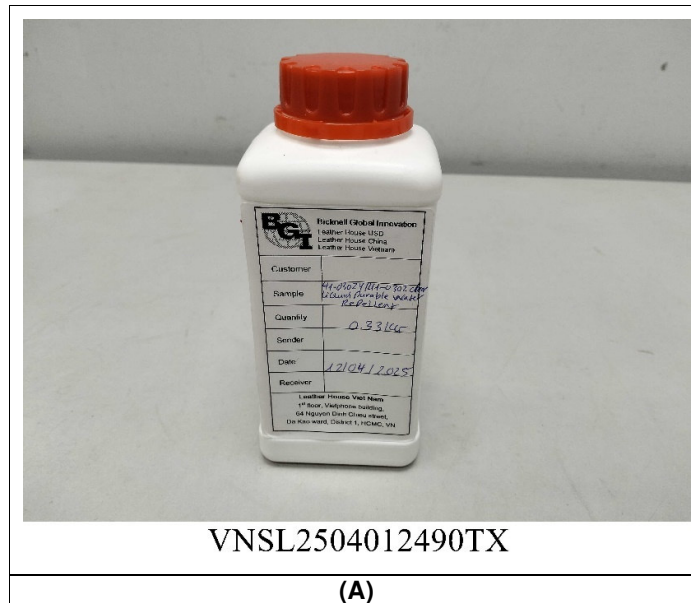
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### Component List / List of Material

Sample No.	Component	Material	Color	Fiber Type	Remark
A1	Transparent chemical liquid	Liquid	Transparent	-	-

### PHOTO OF SUBMITTED SAMPLE



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## Test Results:

### Alkylphenols (AP) & Alkylphenol Ethoxylates (APEO) (\*)

Test Method: Dissolve in THF, followed by Solvent extraction and analyzed by LC-MS

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Nonylphenol (NP)	25154-52-3	n.d.
Octylphenol (OP)	27193-28-8	n.d.
Nonylphenol Ethoxylate (NPEO)	9016-45-9	n.d.
Octylphenol Ethoxylate (OPEO)	9002-93-1	n.d.
Sum of APs	--	n.d.
Sum of APEOs	--	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 Reporting Limit:  
 APs: 3 mg/kg  
 APEOs: 10 mg/kg

#### Client's Requirement:

**APs** 10 mg/kg (sum)  
**APEOs** 100 mg/kg (sum)

### Alkylphenols (AP) & Alkylphenol Ethoxylates (APEO) (\*)

Test Method: Alkylphenols (AP): With reference to AFIRM RSL 2024 method by solvent extraction. Analysis was conducted by LC-MS.  
 Alkylphenol Ethoxylates (APEO): With reference to EN ISO 18254-1:2016. Analysis was conducted by LC-MS.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Nonylphenol (NP)	Various	n.d.
Octylphenol (OP)	Various	n.d.
Sum of AP (NP+OP)	Various	n.d.
Nonylphenol Ethoxylate (NPEO)	Various	n.d.
Octylphenol Ethoxylate (OPEO)	Various	n.d.
Sum of AP(NP+OP) & APEO (NPEO+OPEO)	various	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = Not Detected  
 mg/kg = ppm  
 Reporting limit:  
 AP: 3 mg/kg (each)  
 APEO: 10 mg/kg (each)

#### Client's Requirement:

**Sum of AP** 10 mg/kg  
**Sum of AP & APEO:** 100 mg/kg

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## Formaldehyde (\*)

Test Method: With reference to ISO 27587:2021. Analysis was conducted by HPLC-DAD.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Formaldehyde	50-00-0	n.d.
<b>Conclusion for Baby</b>	--	<b>PASS</b>
<b>Conclusion for Non-Baby</b>	--	<b>PASS</b>

Note: n.d. = not detected  
mg/kg = ppm  
Reporting Limit = 5 mg/kg

**Conclusion for Baby: Pass**

**Conclusion for Non-Baby: Pass**

**Client's Requirement:**

**Baby(0-36 months)**

**0-36 months: <16mg/kg for Japan;  
20mg/kg for all others.**

**Non-Baby**

**75 mg/kg**

## Formaldehyde (\*)

Test Method: Liquid: With reference to ISO 27587:2021. Analysis was conducted by HPLC-DAD

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Formaldehyde	50-00-0	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Notes: n.d. = not detected  
mg/kg = ppm  
Reporting limit = 5 mg/kg

**Client's Requirement:**

**Child & Baby**

**16 mg/kg**

**Adult – Contract with skin**

**75 mg/kg**

**Adult – Non-contact with skin**

**300 mg/kg**

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## Organotin Compounds (\*)

Test Method: Others: With reference to ISO/TS 16179:2012. Analysis was conducted by GC-MS.

	<b>CAS-No.</b>	<b>Result (mg/kg)</b>
Tributyltin (TBT)	688-73-3; 56573-85-4	n.d.
Monobutyltin (MBT)	78763-54-9	n.d.
Dibutyltin (DBT)	1002-53-5	n.d.
Diocetyl tin (DOT)	15231-44-4	n.d.
Triphenyltin (TPhT)	892-20-6	n.d.
Σ of Trisubstituted organotin compounds	--	n.d.
Tripropyltin (TPrT)	--	n.d.
Tributyltin (TBT)	--	n.d.
Trimethyltin (TMT)	--	n.d.
Triocetyl tin (TOT)	--	n.d.
Triphenyltin (TPhT)	--	n.d.
Tricyclohexyltin (TCyT)	--	n.d.
Total (TBT+ TMT+ TPhT+ TOT+ TCyT+ TPrT)	--	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Notes: n.d. = not detected  
 mg/kg = ppm  
 Reporting Limit = 0.01 mg/kg (for individual compound)

### Client's Requirement:

<b>Tributyltin (TBT)</b>	<b>Child &amp; baby: 0.5 mg/kg</b>
	<b>Adult: 1 mg/kg</b>
<b>Monobutyltin (MBT)</b>	<b>1 mg/kg</b>
<b>Dibutyltin (DBT)</b>	<b>1 mg/kg</b>
<b>Triphenyltin (TPhT)</b>	<b>0.5 mg/kg</b>
<b>Diocetyl tin (DOT)</b>	<b>1 mg/kg</b>
<b>Total (TBT+ TMT+ TPhT+ TOT+ TCyT+ TPrT)</b>	<b>1000 mg/kg</b>

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## Organotins (\*)

Test Method: With reference to ISO/TS 16179:2012. Analysis was conducted by GC-MS.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Tributyltin (TBT)	56573-85-4	n.d.
Triphenyltin (TPhT)	668-34-8	n.d.
Tri-n-propyltin (TPrT)	2279-76-7	n.d.
Trimethyltin (TMT)	--	n.d.
Trioctyltin (TOT)	869-59-0	n.d.
Tricyclohexyltin (TCyT)	6056-50-4	n.d.
Dibutyltin (DBT)	1002-53-5	n.d.
Diocetyl tin (DOT)	15231-44-4	n.d.
Monobutyltin (MBT)	2273-43-0	n.d.
Σ Trisubstituted organotin compounds TPrT, TBT, TMT, TOT, TPhT, TCyT	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Notes: n.d. = not detected  
 mg/kg = ppm  
 Reporting Limit: 0.01 mg/kg (for individual compound)

### Client's Requirement:

<b>TBT/TPhT</b>	<b>0.5 mg/kg (sum)</b>
<b>DBT/DOT</b>	<b>0.5 mg/kg (sum)</b>
<b>Monobutyltin (MBT)</b>	<b>0.5 mg/kg</b>
<b>Σ Trisubstituted organotin compounds TPrT, TBT, TMT, TOT, TPhT, TCyT.</b>	<b>0.5 mg/kg</b>

## Total Fluorine

Test Method: With reference to EN 14582:2016. Analysis was performed by Ion Chromatography.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Fluorine content	7782-41-4	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 Reporting Limit = 20 mg/kg

**Client's Requirement: 20 mg/kg**

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## Phthalates (\*)

Test Method: With reference to CPSC-CH-C1001-09.4. Analysis was conducted with GC-MS.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Dibutylphthalate (DBP)	84-74-2	n.d.
Benzylbutylphthalate (BBP)	85-68-7	n.d.
Bis-(2-ethylhexyl)phthalate (DEHP)	117-81-7	n.d.
Di-isononylphthalate (DINP)	28553-12-0	n.d.
Di-octylphthalate (DNOP)	117-84-0	n.d.
Di-isodecylphthalate (DIDP)	26761-40-0	n.d.
Diisobutyl phthalate (DIBP)	84-69-5	n.d.
Di-n-Hexylphthalate (DnHP)	84-75-3	n.d.
Bis (2-methoxyethyl) phthalate (DMEP)	117-82-8	n.d.
Di-C6-8 branched alkylphthalate (DIHP)	71888-89-6	n.d.
Di-C7-11 branched alkylphthalate (DHNUP)	68515-42-4	n.d.
N-pentyl-isopentyl phthalate (nPiPP)	776297-69-9	n.d.
Diisopentylphthalate (DiPP)	605-50-5	n.d.
Di-n-pentylphthalate (DPP)	131-18-0	n.d.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	84777-06-0	n.d.
Dimethyl phthalate (DMP)	131-11-3	n.d.
Diethyl phthalate (DEP)	84-66-2	n.d.
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear standard	68515-50-4	n.d.
Dicyclohexyl phthalate (DCHP)	84-61-7	n.d.
Diisohexyl phthalate (DIHxP)	71850-09-4	n.d.
Dipropyl phthalate (DPRP)	131-16-8	n.d.
Bis (2-ethylhexyl) tetrabromophthalate	26040-51-7	n.d.
Diisooctyl phthalate (DIOP)	27554-26-3	n.d.
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters;; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥0.3% of dihexyl phthalate;	68515-51-5 68648-93-1	n.d.
Sum	--	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 Reporting Limit: 15 mg/kg (for individual compound)

**Client's Requirement: Others: <50 mg/kg (for individual compound or sum)**

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### Total Heavy Metal (\*)

Test Method: acid digestion- Analysis was conducted with Atomic Absorption Spectrometry- ICP-OES

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Cadmium (Cd)	7440-43-9	n.d.
Lead (Pb)	7439-92-1	n.d.
Mercury (Hg)	7439-97-6	n.d.
Arsenic (As)	7440-38-2	n.d.
Antimony(Sb)	7440-36-0	n.d.
Chromium(Cr)	7440-47-3	n.d.
Cobalt(Co)	7440-48-4	n.d.
Copper(Cu)	7440-50-8	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = Not Detected  
 mg/kg = ppm  
 Reporting Limit =10 mg/kg

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## Volatile Organic Compounds (\*)

Test Method: Others: Formamide, DMFa, NMP, DMAC: ISO 16189:2021. Analysis was conducted by GC-MS.

Others VOC: Headspace method. Analysis was conducted by HS-GC-MS

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Phenol	108-95-2	n.d.
Toluene	108-88-3	29
Xylene (O, P, M)	1330-20-7	n.d.
Dimethyl formamide (DMFa)	68-12-2	n.d.
Formamide	75-12-7	n.d.
N-Methyl-2-pyrrolidone (NMP)	872-50-4	n.d.
Dimethylacetamide (DMAC)	127-19-5	n.d.
Methylene Chloride	75-09-2	n.d.
1,1,1,2-Tetrachloroethane	630-20-6	n.d.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.
Chloroform	67-66-3	n.d.
1,1,2-Trichloroethane	79-00-5	n.d.
1,1-Dichloroethylene	75-35-4	n.d.
1,1,1-Trichloroethane	71-55-6	n.d.
Carbon Tetrachloride	56-23-5	n.d.
Pentachloroethane	76-01-7	n.d.
Benzene	71-43-2	n.d.
n-hexane	110-54-3	n.d.
Carbon Disulfide	75-15-0	n.d.
1,2-Dichloroethane	107-06-2	n.d.
Ethylbenzene	100-41-4	n.d.
Tetrachloroethylene(PERC)	127-18-4	n.d.
Trichloroethylene	79-01-6	n.d.
Cyclohexanone	108-94-1	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detected  
mg/kg = ppm

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<u>VOC</u>	<u>CAS No.</u>	<u>Reporting Limit</u>	<u>Client's Requirement</u>
Phenol	108-95-2	5 mg/kg	15 mg/kg
Toluene	108-88-3	5 mg/kg	100 mg/kg
Xylene (O, P, M)	1330-20-7	5 mg/kg	100 mg/kg
Dimethyl formamide (DMFa)	68-12-2	5 mg/kg	500 mg/kg
Formamide	75-12-7	20 mg/kg	500 mg/kg
Methylene Chloride	75-09-2	5 mg/kg	100 mg/kg
1,1,1,2-Tetrachloroethane	630-20-6	5 mg/kg	100 mg/kg
1,1,2,2-Tetrachloroethane	79-34-5	5 mg/kg	100 mg/kg
Chloroform	67-66-3	5 mg/kg	100 mg/kg
1,1,2-Trichloroethane	79-00-5	5 mg/kg	100 mg/kg
1,1-Dichloroethylene	75-35-4	5 mg/kg	100 mg/kg
1,1,1-Trichloroethane	71-55-6	5 mg/kg	100 mg/kg
Carbon Tetrachloride	56-23-5	5 mg/kg	100 mg/kg
Pentachloroethane	76-01-7	5 mg/kg	100 mg/kg
Benzene	71-43-2	1.6 mg/kg	<5 mg/kg
n-hexane	110-54-3	5 mg/kg	100 mg/kg
N-Methyl-2-pyrrolidone (NMP)	872-50-4	5 mg/kg	1000 mg/kg
Dimethylacetamide (DMAC)	127-19-5	5 mg/kg	1000 mg/kg
Carbon Disulfide	75-15-0	20 mg/kg	100 mg/kg
1,2-Dichloroethane	107-06-2	5 mg/kg	100 mg/kg
Ethylbenzene	100-41-4	10 mg/kg	100 mg/kg
Tetrachloroethylene(PERC)	127-18-4	10 mg/kg	100 mg/kg
Trichloroethylene	79-01-6	10 mg/kg	100 mg/kg
Cyclohexanone	108-94-1	20 mg/kg	100 mg/kg

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## Volatile Organic Chemicals (VOC) (\*)

Test Method: Headspace (90°C for 45min is requested by client). Analysis was conducted by HS- GC-MS

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
1,1,2,2-Tetrachloroethane	79-34-5	n.d.
1,1,1,2- Tetrachloroethane	630-20-6	n.d.
Carbon Tetrachloride	56-23-5	n.d.
1,1,2-Trichloroethane	79-00-5	n.d.
1,1-Dichloroethylene	75-35-4	n.d.
1,1,1-Trichloroethane	71-55-6	n.d.
Pentachloroethane	76-01-7	n.d.
Chloroform	67-66-3	n.d.
Tetrachloroethylene	127-18-4	n.d.
Benzene	71-43-2	n.d.
Toluene	108-88-3	31
Dimethyl Formamide	68-12-2	n.d.
Dimethyl sulfoxide	67-68-5	n.d.
N,N-dimethylacetamide	127-19-5	n.d.
Methylene Chloride	75-09-2	n.d.
Phenol	108-95-2	n.d.
Xylene	1330-20-7	n.d.
Trichloroethylene	79-01-6	n.d.
Toluene-2,6-diisocyanate	91-08-7	n.d.
4,4-methylenebis (2-chloroaniline)	101-14-4	n.d.
n-methyl pyrrolidone	872-50-4	n.d.
n-hexane	110-54-3	n.d.
Cresol	1319-77-3	n.d.
p/m-Cresol	106-44-5/ 108-39-4	n.d.
o-Cresol	95-48-7	n.d.
Total	--	31
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 Reporting Limit:  
 Dimethyl sulfoxide: 100 mg/kg  
 Toluene-2,6-diisocyanate: 100 mg/kg  
 4,4-methylenebis (2-chloroaniline): 100 mg/kg  
 Others: 1 mg/kg (each)

### Client's Requirement:

**Benzene: 5 mg/kg**  
**Phenol: 10 mg/kg**  
**All Others: 100 mg/kg (each)**  
**Total VOCs: 1000 mg/kg (total)**

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### Total Arsenic (\*)

Test Method: With reference to EN 16711-1:2015. Analysis was conducted by ICP-MS.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Arsenic (As)	7440-38-2	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Notes: n.d. = not detected  
mg/kg = ppm  
Reporting limit = 3 mg/kg

**Client's Requirement: 10 mg/kg**

### Total Lead in Substrate (\*)

Test Method: Non-metal materials: With reference to CPSC-CH-E1002-08.3.  
Analysis was conducted by ICP-OES.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Lead (Pb)	7439-92-1	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Notes: n.d. = not detected  
mg/kg = ppm  
Reporting limit = 5 mg/kg

**Client's Requirement: 40 mg/kg**

### Lead (Pb) (Total) (\*)

Test Method: Acid digestion. Analysis was performed by ICP-OES.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Lead (Pb)	7439-92-1	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: ND=Not Detected  
mg/kg = ppm  
Reporting Limit = 10 mg/kg

**Client's Requirement: 90 mg/kg**

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## Total Cadmium (\*)

Test Method: With reference to EN 16711-1:2015. Analysis was conducted by ICP-OES

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Cadmium (Cd)	7440-43-9	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Notes: n.d. = not detected  
 mg/kg = ppm  
 Reporting limit = 5 mg/kg

**Client's Requirement: 40 mg/kg**

## Total Organic Fluorine

Not Applicable

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**Perfluorinated and Polyfluorinated Chemicals (PFAS) (\*)**

Test Method: Textile and other materials: prEN 17681-1:2023. Analysis was conducted by HPLC-MS/MS and GC-MS.

	<b>CAS-No.</b>	<b>RL</b>	<b>Result</b>
			<b>A1</b>
<b>PFOS and related substances</b>			
Perfluorooctanesulfonic acid (PFOS)#	1763-23-1	0.01 mg/kg	n.d.
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.10 mg/kg	n.d.
N-Methyl-Perfluorooctanesulfonamide(N-Me-FOSA)	31506-32-8	0.10 mg/kg	n.d.
2-(N-ethylperfluoro-1-octanesulfonamido) - ethanol (N-EtFOSE) ~	1691-99-2	0.10 mg/kg	n.d.
2-(N-methylperfluoro-1-octanesulfonamido) - ethanol (N-MeFOSE)	24448-09-7	0.10 mg/kg	n.d.
Perfluorooctane sulfonamide (PFOSA)	754-91-6	0.10 mg/kg	n.d.
Sum of PFOS-related substances	-	-	n.d.
<b>PFOA and its salts</b>			
Perfluorooctanoic acid (PFOA), its salts#	335-67-1	0.01 mg/kg	n.d.
Sum of PFOA & its salts	--	--	n.d.
<b>PFOA-related substances</b>			
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) @	39108-34-4	0.10 mg/kg	n.d.
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH) @ ~	678-39-7	0.20 mg/kg	n.d.
2H,2H Perfluorodecane Acid (H <sub>2</sub> PFDA / 8:2 FTCA) @	27854-31-5	0.10 mg/kg	n.d.
Sum of PFOA-related substances	-	--	n.d.
<b>C9-C14 Perfluorocarboxylic acids (PFCA) and its salts</b>			
Perfluorononane Acid (PFNA)	375-95-1	0.01 mg/kg	n.d.
Perfluorodecane Acid(PFDA)	335-76-2	0.01 mg/kg	n.d.
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	0.01 mg/kg	n.d.
Perfluorododecanoic Acid (PFDoDA)	307-55-1	0.01 mg/kg	n.d.
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.01 mg/kg	n.d.
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	0.01 mg/kg	n.d.
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.01 mg/kg	n.d.
Sum of C9-C14 PFCAs and their salts	--	--	n.d.
<b>C9-C14 Perfluorocarboxylic acids (PFCA)- related substance</b>			
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2FTOH) ~	865-86-1	0.10 mg/kg	n.d.
1,1,2,2-Tetrahydroperfluorotetradecanol(12:2 FTOH)	39239-77-5	0.10 mg/kg	n.d.
2H,2H,3H,3H Perfluoroundecanoic acid (H <sub>4</sub> PFUnDA/ 8:3 FTCA)	34598-33-9	0.10 mg/kg	n.d.
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2FTS)	120226-60-0	0.10 mg/kg	n.d.
1H,1H,2H,2H-Perfluorotetradecyl iodine(12:2FTI) <sup>Δ</sup>	30046-31-2	0.10 mg/kg	n.d.
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI) <sup>Δ</sup>	2043-54-1	0.10 mg/kg	n.d.
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) @ ~	678-39-7	0.10 mg/kg	n.d.
Sum of C9-C14 PFCA-related substances	-	-	n.d.

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## Perfluorinated and Polyfluorinated Chemicals (PFAS) (\*)

Test Method: Textile and other materials: prEN 17681-1:2023. Analysis was conducted by HPLC-MS/MS and GC-MS.

	CAS-No.	RL	Result A1
<b>Perfluorohexane-1-sulphonic acid(PFHxS) and its salts</b>			
Perfluorohexanesulfonic acid (PFHxS), its salts <sup>#</sup>	355-46-4	0.01 mg/kg	n.d.
Sum of PFHxS and its salts	--	--	n.d.

<b>Perfluorohexane-1-sulphonic acid(PFHxS) -related substances</b>			
N-Methylperfluoro-1-hexane sulfonamide (N-MeFHxSA)	68259-15-4	0.10 mg/kg	n.d.
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.10 mg/kg	n.d.
Sum of PFHxS-related substances	--	-	n.d.

<b>Perfluorohexanoic Acid (PFHxA) and its salts</b>			
Perfluorohexane acid (PFHxA), its salts <sup>#</sup>	307-24-4	0.01 mg/kg	n.d.
Sum of PFHxA and its salts	--	--	n.d.

<b>Perfluorohexanoic Acid (PFHxA)-related substances</b>			
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	1.0 mg/kg	n.d.
1H,1H,2H,2H-Perfluoro-1-octanol (6:2FTOH) <sup>~</sup>	647-42-7	1.0 mg/kg	n.d.
2-Perfluorohexyl ethanoic acid (6:2 FTCA) <sup>Δ</sup>	53826-12-3	1.0 mg/kg	n.d.
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	1.0 mg/kg	n.d.
Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	1.0 mg/kg	n.d.
Perfluorohexylethene	25291-17-2	1.0 mg/kg	n.d.
Sum of PFHxA related substances	-	--	n.d.

<b>Conclusion</b>	--	--	<b>PASS</b>
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Note: ND = Not Detected  
 RL = Reporting Limit  
 @ PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances  
 # Substances refer to its salts/derivative listed in Appendix 1  
 ~ Substances refer to its possible sources listed in Appendix 2  
 ^^=Compound is hydrolysed and releases related PFAS substances when extracted by methanol/sodium hydroxide solution  
 Δ = Since the listed PFAS will be degraded to unknown compounds and/or can not be analysed by extraction with methanol/NaOH solution, only extractable content can be detected and quantified with solvent extraction methods. The results received by solvent extraction with subsequent GC-MSD or HPLC-MS/MS analysis reflect only extractable PFAS.

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## Client's Requirement:

<b>PFOS and related substances</b>	
<b>Others: PFOS and its salts</b>	<b>0.025 mg/ kg (sum)</b>
<b>PFOS-related substances</b>	<b>1 mg/kg (sum)</b>
<b>PFOA and its salts</b>	<b>0.025 mg/kg (sum)</b>
<b>PFOA-related substances</b>	<b>1 mg/kg (sum)</b>
<b>C9-C14 PFCA, their salts</b>	<b>0.025mg/kg (sum)</b>
<b>C9-C14 PFCA-related substance</b>	<b>0.26mg/kg (sum)</b>
<b>PFHxS and its salts</b>	<b>0.025 mg/kg (sum)</b>
<b>PFHxS -related substances</b>	<b>1 mg/kg (sum)</b>
<b>PFHxA and its salts</b>	<b>0.025 mg/kg (sum)</b>
<b>PFHxA -related substances</b>	<b>1 mg/kg (sum)</b>

### Appendix 1 – List of PFAS its salts & derivatives

Note: Salts of listed PFAS is subjected to the detection of its parent PFAS

Substances	CAS No.	Substances	CAS No.
<b>PFOA, its salts &amp; derivatives</b>			
Perfluorooctanoic Acid (PFOA)	335-67-1	Silver perfluorooctanoate (PFOA-Ag)	335-93-3
Sodium perfluorooctanoate (PFOA-Na)	335-95-5	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Potassium perfluorooctanoate (PFOA-K)	2395-00-8	Ammonium perfluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5		
<b>PFOS, its salts &amp; derivatives</b>			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> ) / PFOS-TEA	56773-42-3
Potassium perfluorooctane sulfonate (PFOS-K)	2795-39-3	Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-N(C <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> )	251099-16-8
Lithium perfluorooctane sulfonate (PFOS-Li)	29457-72-5	Perfluoro-1-octanesulfonyl fluoride (PFOS-F)	307-35-7
Ammonium perfluorooctane sulfonate (PFOS-NH <sub>4</sub> )	29081-56-9	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH <sub>2</sub> (C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )	70225-14-8
<b>PFHxS, its salts &amp; derivatives</b>			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH <sub>4</sub> )	68259-08-5
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-, sodium salt (PFHxS-Na)	82382-12-5	Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)	55120-77-9
Potassium perfluorohexane-1-sulphonate (PFHxS-K)	3871-99-6		
<b>PFHxA, its salts &amp; derivatives</b>			
Perfluorohexane Acid (PFHxA)	307-24-4	Potassium perfluorohexanoate (PFHxA-K)	3109-94-2
Ammonium perfluorohexanoate (APFHx)	21615-47-4	Silver perfluorohexanoate (PFHxA-Ag)	336-02-7
Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8

### Appendix 2 – List of PFAS hydrolysed ^^ when extracted by methanol/sodium hydroxide solution

Note: Hydrolysed compound of listed PFAS is subjected to the detection of its parent PFAS.

Substances	CAS No.	Substances	CAS No.
<b>PFOA, its possible source</b>			
Perfluorooctanoic Acid (PFOA)	335-67-1	Methyl perfluorooctanoate (Me-PFOA) ^^	376-27-2
Ethyl perfluorooctanoate (Et-PFOA) ^^	3108-24-5		
<b>6:2 FTOH, its possible source</b>			
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) ^^	17527-29-6
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA) ^^	2144-53-8		
<b>8:2 FTOH, its possible source</b>			
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH)	678-39-7	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) ^^	27905-45-9
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^^	1996-88-9		

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<b>N-EtFOSE, its possible source</b>			
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	2-(N-ethylperfluorooctanesulfamido)ethyl acrylate (EtFOSAC) ^^	423-82-5
<b>10:2 FTOH, its possible source</b>			
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) ^^	17741-60-5
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) ^^	2144-54-9		

## Perfluorinated Compounds (PFCs)- Other Materials (#)

**Test Method:** With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	RL	A1	Req.
<b>PFOS, its salts and related compounds</b>					
Perfluorooctanesulfonic acid (PFOS) <sup>Note 1</sup>	1763-23-1	mg/kg	0.010	ND	0.010
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND	0.010
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND	0.010
2-(N-ethylperfluoro-1-octanesulfonamido) - ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND	0.010
2-(N-methylperfluoro-1-octanesulfonamido) - ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND	0.010
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND	0.010
<b>PFOA, its salts</b>					
Perfluorooctanoic acid (PFOA) <sup>Note 2</sup>	335-67-1	mg/kg	0.010	ND	0.010
<b>C9-C14 PFCA, its salts</b>					
Perfluorononane Acid (PFNA) <sup>Note 3</sup>	375-95-1	mg/kg	0.010	ND	0.010
Perfluorodecane Acid (PFDA) <sup>Note 3</sup>	335-76-2	mg/kg	0.010	ND	0.010
<b>PFHxS, its salts</b>					
Perfluorohexanesulfonic acid (PFHxS) <sup>Note 4</sup>	355-46-4	mg/kg	0.010	ND	0.010
<b>C9-C14 PFCA, its salts</b>					
Perfluoroundecanoic Acid (PFUdA)	2058-94-8	mg/kg	0.010	ND	0.010
Perfluorododecanoic Acid (PFDoDA) <sup>Note 3</sup>	307-55-1	mg/kg	0.010	ND	0.010
Perfluorotridecanoic Acid (PFTrA)	72629-94-8	mg/kg	0.010	ND	0.010
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	mg/kg	0.010	ND	0.010
Perfluoro-3,7-dimethyloctanoic Acid(PF-3,7-DMOA)	172155-07-6	mg/kg	0.010	ND	0.010
Sum of C9-C14 PFCA, its salts	-	mg/kg	0.010	ND	0.010
<b>Conclusion</b>				<b>Pass</b>	

**Remark:** ND = Not Detected  
RL = Reporting Limit

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**Notes:** 1 PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-Na (CAS No.: 4021-47-0), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-N(C<sub>10</sub>H<sub>21</sub>)<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub> (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7)

2 PFOA refer to its salts/derivative including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)

3 PFNA refer to its salts including PFNA-Na (CAS No.: 21049-39-8) and PFNA-NH<sub>4</sub> (CAS No.: 4149-60-4);

PFDA refer to its salts including PFDA-Na (CAS No. 3830-45-3) and PFDA-NH<sub>4</sub> (CAS No.: 3108-42-7);

PFDoDA refer to its salts including PFDoDA-NH<sub>4</sub> (CAS No.: 3793-74-6)

4 PFHxS refers to its salts including PFHxS-Na (CAS No.: 82382-12-5), PFHxS-K (CAS No.: 3871-99-6), PFHxS-Li (CAS No.: 55120-77-9) and PFHxS-NH<sub>4</sub> (CAS No.: 68259-08-5)

**Remarks:** Above test (#) was performed by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.

Above tests except (\*) (#) are accredited ISO 17025:2017 by VILAS.

The test results are considered as conform to specification based on the general consideration simple acceptance as stated in ISO/IEC GUIDE 98-4:2012

*Report results refer to submitted sample(s) only*

\*\*\* End of Report \*\*\*

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