

# Test Report

No.: VN~~SL~~2404010638TX-01

Date: May 06, 2024

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This report cancels and supersedes the report No. **VN~~SL~~2404010638TX** dated **Apr 10, 2024** issued by SGS Vietnam Ltd

## ENGINEERED CUSTOM COATINGS

1002 HICKORY ST. PEWAUKEE WI 53072

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

Sample No.	Sample Description
A	Defender DE-41-0308N DE Defender Repellent RSL test

Color Submitted : /

Country of Origin : Vietnam

Country of Destination : Global

Sample Receiving Date : Apr 04, 2024 PM. Confirmation Date: Apr 05, 2024

Test Performing Period : Apr 05, 2024 - Apr 10, 2024 & May 02, 2024 – May 06, 2024

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

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

**Conclusion : PASS**

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**Chemical Tests:**

**Overall Result**

	<u>(A)</u>
Free Formaldehyde	M
Total Cadmium	M
Total Lead On Substrate	M
Total Arsenic	M
Organotin Compounds	M
Phthalates	M
SVHC	N/A
Toy Safety Test	N/A
Total Fluorine Screening	M
Perfluorooctanesulfonate (PFOS) · its salts and PFOS-related substances Content	
PFOA, its salts and PFOA-related substances.	
C9-C14 linear and branched Perfluorocarboxylic acids (PFCA), its salts and PFCA-related substances Content	M
Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds	
Organic Solvents	M
Alkylphenols (AP) & Alkylphenol Ethoxylates (APEO)	M
Dimethyl Formamide (DMFa)	N/A
N,N-Dimethylacetamide (DMAC)& 1-Methyl-2-pyrrolidone (NMP)	M
Synthetic Polymer Microplastics	N/A

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

Note: Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s).

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



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Rhodora Quinto  
 Softlines Lab Manager

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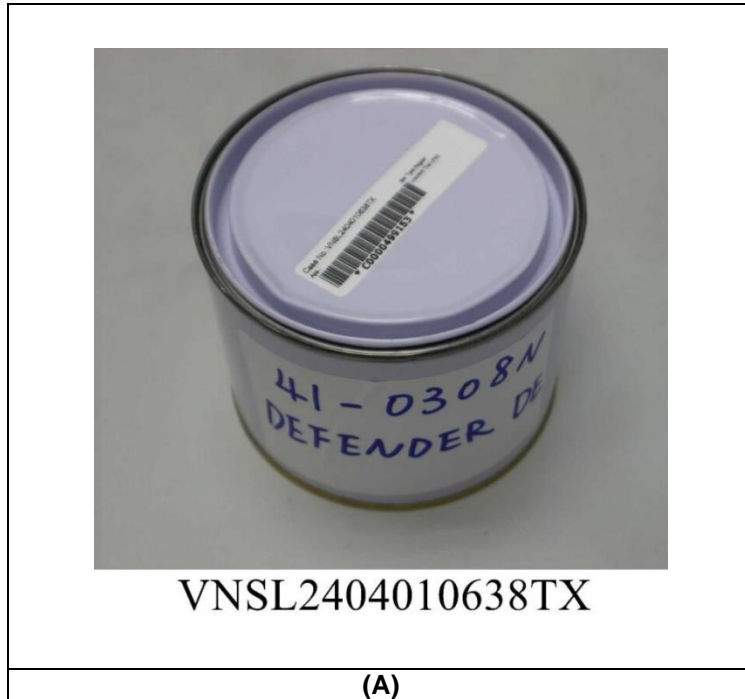
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**Component List / List of Material**

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

**PHOTO OF SUBMITTED SAMPLE**



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## Test Results:

### Free Formaldehyde (\*)

Test Method: In-house method of steam distillation, Analysis was performed by UV/VIS spectrophotometer.

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

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

#### Client's Requirement:

< 36 months                      **16 mg/kg**  
> 36 months                        **75 mg/kg**  
Packaging                            **150 mg/kg**

### Total Cadmium (\*)

Test Method: In-house method. Analysis was performed by ICP-OES.

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

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

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

### Total Lead on substrate

Test Method: Non-metallic materials: With reference to CPSC-CH-E1002-08.3.  
Analysis was performed by ICP-MS.

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

Note: n.d. = not detected  
mg/kg = ppm  
Composite test has been performed and the result is calculated using the minimum sample weight.  
Reporting Limit: 20 mg/kg

**Client's Requirement:                      60 mg/kg (others)**

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## Total Arsenic (\*)

Test Method: With reference to QB/T 4340-2012. Analysis was performed 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>PASS</b>

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

**Client's Requirement: 100 mg/kg**

## Organotin Compounds (\*)

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

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Tributyltin (TBT)	--	n.d.
Triphenyltin (TPhT)	--	n.d.
Dibutyltin (DBT)	--	n.d.
Diocetyl tin (DOT)	--	n.d.
Monobutyltin (MBT)	--	n.d.
Tripropyltin (TPT)	--	n.d.
Trimethyltin (TMT)	--	n.d.
Tricyclohexyltin (TCyT)	--	n.d.
Triocetyl tin (TOT)	--	n.d.
<b>Conclusion</b>		<b>PASS</b>

Notes: n.d. = not detected  
mg/kg = ppm  
Reporting limit = 0.02 mg/kg

### **Client's Requirement:**

<b>TBT</b>	<b>0.05 mg/kg &lt; 24 months</b>
<b>TPhT</b>	<b>0.5 mg/kg &gt; 24 months</b>
<b>TPT</b>	<b>0.5 mg/kg</b>
<b>DBT, DOT, TPT, MBT, TMT</b>	<b>1.0 mg/kg (each)</b>
<b>TCyT, TOT</b>	<b>1.0 mg/kg (each)</b>

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**Phthalates**

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

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Dibutylphthalate (DBP)	84-74-2	n.d.
Bis-(2-ethylhexyl)phthalate (DEHP)	117-81-7	n.d.
Benzylbutylphthalate (BBP)	85-68-7	n.d.
Di-isononylphthalate (DINP)	28553-12-0 / 68515-48-0	n.d.
Di-n-octylphthalate (DNOP)	117-84-0	n.d.
Di-isodecylphthalate (DIDP)	26761-40-0/ 68515-49-1	n.d.
Di-n-Hexylphthalate (DnHP/ DHEXP)	84-75-3	n.d.
Di-iso-butylphthalate (DIBP)	84-69-5	n.d.
Di-n-pentyl phthalate (DPENP)	131-18-0	n.d.
Dicyclohexyl Phthalate (DCHP)	84-61-7	n.d.
Diethylphthalate (DEP)	84-66-2	n.d.
Di-C6-8-branched alkylphthalates (DIHP)	71888-89-6	n.d.
Di-C7-11-branched alkylphthalates (DHNUP)	68515-42-4	n.d.
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	n.d.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	84777-06-0	n.d.
N-pentyl-isopentyl phthalate (NPIPP)	776297-69-9	n.d.
Diisopentylphthalate (DIPP)	605-50-5	n.d.
Dimethyl Phthalate (DMP)	131-11-3	n.d.
Dipropyl Phthalate (DPrP)	131-16-8	n.d.
Diisooctyl Phthalate (DIOP)	27554-26-3	n.d.
Di-hexylphthalate, branched and linear (DHxP)	68515-50-4	n.d.
Di-iso-hexylphthalate (DIHxP)	71850-09-4	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Notes: n.d. = not detected  
 mg/kg = ppm  
 Reporting Limit: 50 mg/kg (for individual compound)

**Client's Requirement: 500 mg/kg (Each)  
 1000 mg/kg (Sum)**

**SVHC**

Not Applicable

**Toy Safety Test**

Not Applicable

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## Total Fluorine Screening

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

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

Notes: n.d. = not detected  
mg/kg = ppm  
Reporting limit = 50 mg/kg

**Client's Requirement: 50 mg/kg**

Remark: If detected over 50 ppm additional documentation such as MSDS, testing of All targeted PFAS chemicals will be requested by Buyer's compliance team.

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**Perfluorooctanesulfonate (PFOS), its salts and PFOS-related substances Content**
**PFOA, its salts and PFOA-related substances**
**C9-C14 linear and branched Perfluorocarboxylic acids (PFCA), its salts and PFCA-related substances Content**
**Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds**

Test Method: With reference to EN ISO 23702-1:2018. Analysis was conducted by HPLC-MS, HPLC-MS/MS and GC-MS.

	<b>CAS-No.</b>	<b>Result</b>
		<b>A1</b>
<b>PFOS and its salts</b>		
Perfluorooctanesulfonic acid (PFOS)^	1763-23-1	n.d.
<b>PFOS and related substances</b>		
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	n.d.
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	n.d.
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	n.d.
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	n.d.
Perfluorooctane sulfonamide (PFOSA)	754-91-6	n.d.
<b>PFOA and its salts</b>		
Perfluorooctanoic acid (PFOA)+	335-67-1	n.d.
<b>PFOA-related Substances</b>		
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS)	39108-34-4	n.d.
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	n.d.
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	n.d.
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	n.d.
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	n.d.
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	n.d.
Perfluoro-1-iodooctane (PFOI)	507-63-1	n.d.
Sum of PFOA-related substances	--	n.d.
<b>C9-C14 PFCAs and their salts</b>		
Perfluorononane Acid (PFNA)^	375-95-1	n.d.
Perfluorodecane Acid (PFDA)^	335-76-2	n.d.
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	n.d.
Perfluorododecanoic Acid (PFDoA)^	307-55-1	n.d.
Perfluorotridecanoic Acid (PFTrA)	72629-94-8	n.d.
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	n.d.
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	n.d.
Total of C9-C14 PFCAs and its salts	--	n.d.
<b>C9-C14 PFCA-related substances</b>		
Perfluorodecane sulfonic Acid (PFDS)@	335-77-3	n.d.
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	n.d.
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	n.d.
Total of C9-C14 PFCA-related substances	--	n.d.
<b>PFHxS and its salts</b>		
Perfluorohexanesulfonic acid (PFHxS) Note 4	355-46-4	n.d.
<b>PFHxS-related substances</b>		
N-Methylperfluoro-1-hexane sulfonamide (N-Me-FHxSA)	68259-15-4	n.d.
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	n.d.
<b>Total of PFHxS-related substances</b>	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

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Note: ND = Not detected  
 mg/kg = ppm  
 1 mg/kg = 1000 ppb  
 ^ PFOS refer to its salts / derivative including PFOS-K (CAS No.: 2795-39-3) , PFOS-Li (CAS No.: 29457-72-5), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(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)  
 + PFOA refer to its salts 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)  
 ^ PFNA refer to its salts including PFNA-Na (CAS No.: 21049-39-8), APFN (CAS No.: 4149-60-4), PFDA-Na (CAS No. 3830-45-3), APFDA (CAS no: 3108-42-7), PFDoA-NH<sub>4</sub> (CAS No.: 3793-74-6)  
 @ PFDS refer to its salts including PFDS-Na (CAS No.: 2806-15-7), PFDS-K (CAS No.: 2806-16-8), PFDS-NH<sub>4</sub> (CAS No.: 67906-42-7)  
 4PFHxS 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)

**Reporting limit:**

PFOS and its salts & PFOS-related substances  
     Textile / Coated Material = 1 µg/m<sup>2</sup> (each)  
     Others = 1 mg/kg (each)  
 PFOA and its salts = 0.025 mg/kg  
 PFOA related substances = 1 mg/kg  
 C9-C14 PFCA and its salts = 0.010 mg/kg (each)  
 C9-C14 PFCA-related substances = 0.1 mg/kg (each)  
 PFHxS and its salts = 0.01 mg/kg (each)  
 PFHxS-related substances = 0.10 mg/kg (each)

**Requirement:**

<b>PFOS and its salts &amp; PFOS-related substances</b>	<b>1 µg/m<sup>2</sup> (each)</b> <b>(Textile/coated materials)</b>
<b>PFOA and its salts</b>	<b>1000 mg/kg (each) Others</b>
<b>PFOA-related substances</b>	<b>0.025 mg/kg (sum)</b>
<b>C9-C14 PFCA and its salts</b>	<b>1 mg/kg (sum)</b>
<b>9-C14 PFCA-related substances</b>	<b>0.025 mg/kg (sum)</b>
<b>PFHxS and its salts</b>	<b>0.26 mg/kg (sum)</b>
<b>PFHxS-related substances</b>	<b>0.025 mg/kg (total)</b>
	<b>1 mg/kg (total)</b>

Remark: Recommended requirement with reference to commission regulation (EU) 2021/1297 amending Annex XVII to Regulation (EC) 1907/2006. (Effective date: 25<sup>th</sup> February 2023)

**Organic Solvents (\*)**

Test Method: In-house method – solvent extraction. Analysis was performed with GC-MS.

	<b>CAS-No.</b>	<b>Result (mg/kg)</b>
		<b>A1</b>
Benzene	71-43-2	n.d.
Phenol	108-95-2	n.d.
Tetrachloroethane	79-34-5/ 630-20-6	n.d.
Toluene	108-88-3	27.2
Xylene	--	142
Trichloroethylene	79-01-6	n.d.
Dichloromethane	75-09-2	n.d.
Methylphenol	1319-77-3	n.d.
Carbon Tetrachloride	56-23-5	n.d.
Chloroform	67-66-3	n.d.
Cyclohexanone	108-94-1	n.d.
1,2-Dichloroethane	107-06-2	n.d.
1,1-Dichloroethylene	75-35-4	n.d.
Pentachloroethane	76-01-7	n.d.
Tetrachloroethylene (PER)	127-18-4	n.d.
Ethylbenzene	100-41-4	n.d.
1,1,1-Trichloroethane	71-55-6	n.d.
1,1,2-Trichloroethane	79-00-5	n.d.
Carbon disulfide	75-15-0	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

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

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<u>Solvents</u>	<u>Client's Requirement</u> <u>(mg/kg)</u>	<u>Reporting Limit</u> <u>(mg/kg)</u>
Benzene	5.0	1.0
Phenol	10	3.0
Tetrachloroethane	1000	5.0
Toluene	1000	5.0
Xylene	1000	5.0
Trichloroethylene	1000	5.0
Dichloromethane	1000	5.0
Methylphenol	1000	5.0
Carbon Tetrachloride	1000	5.0
Chloroform	1000	5.0
Cyclohexanone	1000	5.0
1,2-Dichloroethane	1000	5.0
1,1-Dichloroethylene	1000	5.0
Pentachloroethane	1000	5.0
Tetrachloroethylene (PER)	1000	5.0
Ethylbenzene	1000	5.0
1,1,1-Trichloroethane	1000	5.0
1,1,2-Trichloroethane	1000	5.0
Carbon disulfide	1000	5.0
<b>Sum</b>	<b>1000</b>	<b>-</b>

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

Test Method: In house Method – Solvent Extraction. Analysis was conducted by LC-MS

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Sum of Aps (NP+OP)	--	n.d.
Sum of APEOs (NPEO+OPEO)	--	n.d.
Sum of APs+APEOs	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 Reporting limit = Total AP: 3 mg/kg; Total APEO: 20 mg/kg

### Client's Requirement:

**APs** 10 mg/kg (Sum)  
**APs+APEOs** 100 mg/kg (Sum)

## Dimethyl Formamide (DMFa)

Not Applicable

## N,N-Dimethylacetamide (DMAC)& 1-Methyl-2-pyrrolidone (NMP) (\*)

Test Method: All other materials: With reference to DIN CEN ISO/TS 16189:2013. Analysis was conducted by GC-MS.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
N,N-Dimethylacetamide (DMAC)	127-19-5	n.d.
1-Methyl-2-pyrrolidone (NMP)	872-50-4	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = Not detected  
 mg/kg = ppm  
 Reporting limit = 50 mg/kg (each)

**Client's Requirement: 1000 mg/kg(each)**

## Synthetic Polymer Microplastics

Not Applicable

Remarks: 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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