



# Test Report

Report No. A2230634229101002

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**Company Name** JIANGSU SINONIC PRECISION ALLOY TECHNOLOGY CO.,LTD  
**shown on Report**  
**Address** ENVIRONMENT PROTECTION AND SCIENCE TECHNOLOGY INDUSTRY PARK  
LVYUAN ROAD,YIXING,CHINA

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

Sample Name	Nickel strip
Part No.	N6
Color	Silver White
Material	Nickel strip
Sample Received Date	Dec. 2, 2023
Testing Period	Dec. 2, 2023 to Dec. 8, 2023

**Test Conducted:**

As requested by the applicant. For details refer to next page(s)

Approved by   
Chen kaimin  
Lab Manager



Date Dec. 8, 2023

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No. R188384799  
No.1351, Wanfang Road, Minhang District, Shanghai, China

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**Executive Summary:****TEST REQUEST****CONCLUSION**

<b><u>TEST REQUEST</u></b>	<b><u>CONCLUSION</u></b>
Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)	
- Polybrominated Diphenyl Ethers (PBDEs)	PASS
- Perfluorooctane sulfonic acid (PFOS) and its derivatives	PASS
- Hexabromocyclododecane (HBCDD)	PASS
- Short Chain Chlorinated Paraffins (SCCPs)	PASS
- DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane)	PASS
- Chlordane	PASS
- Hexachlorocyclohexanes, including Lindane	PASS
- Dieldrin	PASS
- Endrin	PASS
- Heptachlor	PASS
- Endosulfan	PASS
- Chlordecone	PASS
- Aldrin	PASS
- Mirex	PASS
- Toxaphene	PASS
- Pentachlorobenzene	PASS
- Hexachlorobenzene	PASS
- Hexabromobiphenyl	PASS
- Polychlorinated Biphenyls(PCBs)	PASS
- Polychlorinated Naphthalenes (PCNs)	PASS
- Hexachlorobutadiene (HCBD)	PASS
- Pentachlorophenol and its salts and esters	PASS
- Perfluorooctanoic acid (PFOA) and its salts & related substances	PASS
- Dicofol	PASS
- Perfluorohexane-1-sulphonic acid (PFHxS) and its salts & related substances	PASS

\*\*\*\*\* For further details, please refer to the following page(s) \*\*\*\*\*

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## Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)

### ▼ Polybrominated Diphenyl Ethers (PBDEs)

Test Method: IEC 62321-6:2015; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	002		
Tetrabromodiphenyl ether	N.D.	5	--
Pentabromodiphenyl ether	N.D.	5	--
Hexabromodiphenyl ether	N.D.	5	--
Heptabromodiphenyl ether	N.D.	5	--
Decabromodiphenyl ether	N.D.	5	--
Total	N.D.	--	500

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

### ▼ Perfluorooctane sulfonic acid (PFOS) and its derivatives

Test Method: CEN/TS 15968:2010\*<sup>1</sup>; Test Equipment: LC-MS-MS & GC-MS

<u>No.</u>	<u>Tested Item(s)</u>	<u>CAS No.</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
			002		
1	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	N.D.	0.010	--
2	Sodium perfluorooctane sulfonate (PFOS-Na)*	4021-47-0	N.D.	0.010	--
3	Perfluorooctanesulfonic acid, potassium salt (PFOS-K)*	2795-39-3	N.D.	0.020	--
4	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)*	29457-72-5	N.D.	0.010	--
5	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, magnesium salt (2:1) (PFOS-Mg)*	91036-71-4	N.D.	0.020	--
6	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )*	29081-56-9	N.D.	0.010	--
7	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )*	70225-14-8	N.D.	0.020	--
8	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )*	56773-42-3	N.D.	0.020	--

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No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
			002		
9	Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-DDA)*	251099-16-8	N.D.	0.020	--
10	Perfluoro-1-octanesulfonyl fluoride (PFOF)*	307-35-7	N.D.	0.010	--
11	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate	71463-74-6	N.D.	0.020	--
12	N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	N.D.	0.050	--
13	N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	N.D.	0.050	--
14	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	N.D.	0.050	--
15	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	N.D.	0.050	--
16	Perfluorooctane sulfonamide (PFOSA)	754-91-6	N.D.	0.010	--
17	Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)*	76752-79-9	N.D.	0.010	--
18	Glycine, N-[(heptafluorooctyl)sulfonyl]- (FOSAA)	2806-24-8	N.D.	0.010	--
19	N-Methyl perfluorooctanesulfonamidoacetic acid (N-Me-FOSAA)	2355-31-9	N.D.	0.050	--
20	N-ethyl-N-[(heptafluorooctyl)sulphonyl]glycine (N-Et-FOSAA)	2991-50-6	N.D.	0.050	--
21	Total	--	N.D.	--	1000

**Remark:**

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- \*Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).
- According to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), Perfluorooctane sulfonic acid (PFOS) and its derivatives are defined as a class of chemicals. There is not an official list in the regulation. The conclusion is based on the tested chemicals.

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## ▼ Hexabromocyclododecane (HBCDD)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>CAS No.</u>	<u>Result (mg/kg)</u>	<u>MDL</u>	<u>Limit</u>
		002	(mg/kg)	(mg/kg)
Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	N.D.	5	100

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 'Hexabromocyclododecane (HBCDD)' means: Hexabromocyclododecane (HBCDD), 1,2,5,6,9,10-hexabromocyclododecane and its main diastereoisomers:  $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD

## ▼ Short Chain Chlorinated Paraffins (SCCPs)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS(NCI)

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u>	<u>Limit</u>
	002	(mg/kg)	(mg/kg)
Short Chain Chlorinated Paraffins (SCCPs)	N.D.	100	1500

Remark:

- MDL = Method Detection Limit
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▼ **DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane)**

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	002		
DDT (1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane)	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

▼ **Chlordane**

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	002		
Chlordane	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

▼ **Hexachlorocyclohexanes, including Lindane**

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	002		
Hexachlorocyclohexanes, including Lindane	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

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**▼ Dieldrin**Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Dieldrin	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

**▼ Endrin**Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Endrin	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

**▼ Heptachlor**Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Heptachlor	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

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**▼ Endosulfan**Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Endosulfan	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

**▼ Chlordecone**Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Chlordecone	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

**▼ Aldrin**Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Aldrin	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million



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## ▼ Mirex

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Mirex	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

## ▼ Toxaphene

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Toxaphene	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

## ▼ Pentachlorobenzene

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Pentachlorobenzene	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

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**▼ Hexachlorobenzene**Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Hexachlorobenzene	N.D.	5	10

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

**▼ Hexabromobiphenyl**

Test Method: IEC 62321-6:2015; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Hexabromobiphenyl	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

**▼ Polychlorinated Biphenyls(PCBs)**Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Polychlorinated Biphenyls (PCBs)	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

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## ▼ Polychlorinated Naphthalenes (PCNs)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	002		
Polychlorinated Naphthalenes (PCNs)	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

## ▼ Hexachlorobutadiene (HCBD)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	002		
Hexachlorobutadiene (HCBD)	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

## ▼ Pentachlorophenol and its salts and esters

Test Method: Refer to ISO 17070:2015\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	002		
Pentachlorophenol and its salts and esters	N.D.	1	5

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Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- The test result of Pentachlorophenol and its salts and esters is calculated by Pentachlorophenol.

▼ **Perfluorooctanoic acid (PFOA) and its salts & related substances**

Test Method: CEN/TS 15968:2010\*<sup>1</sup>; Test Equipment: LC-MS-MS & GC-MS

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
			002		
1	Perfluorooctanoic acid (PFOA)	335-67-1	N.D.	0.010	--
2	Ammonium pentadecafluorooctanoate (APFO)*	3825-26-1	N.D.	0.010	--
3	Sodium perfluorooctanoate (PFOA-Na)*	335-95-5	N.D.	0.020	--
4	Potassium perfluorooctanoate (PFOA-K)*	2395-00-8	N.D.	0.020	--
5	Silver perfluorooctanoate (PFOA-Ag)*	335-93-3	N.D.	0.020	--
6	Perfluorooctanoyl fluoride (PFOA-F)*	335-66-0	N.D.	0.010	--
7	Lithium perfluorooctanoate (PFOA-Li)*	17125-58-5	N.D.	0.010	--
8	Cesium perfluorooctanoate (PFOA-Cs)*	17125-60-9	N.D.	0.020	--
9	Cobalt perfluorooctanoate (PFOA-Co)*	35965-01-6	N.D.	0.025	--
10	Chromium(III) perfluorooctanoate (PFOA-Cr)*	68141-02-6	N.D.	0.025	--
11	<b>Perfluorooctanoic acid (PFOA) and its salts</b>	-	<b>N.D.</b>	<b>--</b>	<b>0.025</b>
12	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	N.D.	0.010	1
13	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	N.D.	0.010	1
14	Perfluorooctyl iodide (PFOI)	507-63-1	N.D.	0.200	1
15	1H,1H,2H,2H-perfluoro-1-decanol (8:2 FTOH)	678-39-7	N.D.	0.200	1
16	1H,1H,2H,2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	N.D.	0.200	1
17	1H,1H,2H,2H-Perfluorodecanesulfonic Acid Sodium (8:2 FTS-Na)*	27619-96-1	N.D.	0.200	1
18	8:2 Fluorotelomer sulfonate ammonium salt (8:2 FTS-NH <sub>4</sub> )*	149724-40-3	N.D.	0.200	1

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No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
			002		
19	1,1,2,2-Tetrahydroperfluorodecyl acrylate (8:2 FTAC)	27905-45-9	N.D.	0.200	1
20	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester (8:2 FTMA)	1996-88-9	N.D.	0.200	1
21	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (PFSI)	101947-16-4	N.D.	0.200	1
22	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo- (8:2 FTI)	2043-53-0	N.D.	0.200	1
23	8:2 Fluorotelomer phosphate diester (8:2diPAP)	678-41-1	N.D.	0.200	1
24	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)*	114519-85-6	N.D.	0.200	1
25	Ammonium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-NH <sub>4</sub> )*	93776-20-6	N.D.	0.200	1
26	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (H <sub>2</sub> PFDA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	882489-14-7	N.D.	0.010	1
27	2H,2H,3H,3H-Perfluoroundecanoic acid (H <sub>4</sub> PFUnA)	34598-33-9	N.D.	0.010	1
28	Potassium 3-(perfluorooctyl)propanoate (H <sub>4</sub> PFUnA-K)*	83310-58-1	N.D.	0.020	1
29	2H,2H-Perfluorodecanoate (H <sub>2</sub> PFDA)	27854-31-5	N.D.	0.010	1
30	1-Decene,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-(PFOE)	21652-58-4	N.D.	0.200	1
31	Perfluorooctylethyltrichlorosilane (FDTs)	78560-44-8	N.D.	0.200	1
32	Perfluorooctylethyltrimethoxysilane (FDTMOS)	83048-65-1	N.D.	0.200	1
33	Bis[2-(perfluorodecyl)ethyl] Phosphate (10:2 diPAP)	1895-26-7	N.D.	0.200	1
34	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl dihydrogen phosphate (8:2 monoPAPS)	57678-03-2	N.D.	0.200	1
35	2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	N.D.	0.010	1
36	Alcohols, C8-14, gamma-omega-perfluoro (C8-14-PF <sub>EtOH</sub> )	68391-08-2	N.D.	0.200	1
37	<b>Perfluorooctanoic acid (PFOA) related substances</b>	-	<b>N.D.</b>	<b>--</b>	<b>1</b>

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**Remark:**

- MDL = Method Detection Limit
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- \*Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).
- According to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), Perfluorooctanoic acid (PFOA) and its salts & related substances are defined as a class of chemicals. There is not an official list in the regulation. The conclusion is based on the tested chemicals.

**▼ Dicofol**

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018\*<sup>1</sup>; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	002		
Dicofol	N.D.	5	N.D.

**Remark:**

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

**▼ Perfluorohexane-1-sulphonic acid (PFHxS) and its salts & related substances**

Test Method: CEN/TS 15968:2010\*<sup>1</sup>; Test Equipment: LC-MS-MS & GC-MS

<u>No.</u>	<u>Tested Item(s)</u>	<u>CAS No.</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
			002		
1	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	N.D.	0.010	--
2	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-, sodium salt (PFHxS-Na)*	82382-12-5	N.D.	0.020	--
3	Potassium perfluorohexane-1-sulphonate (PFHxS-K)*	3871-99-6	N.D.	0.020	--
4	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt(1:1) (PFHxS-Li)*	55120-77-9	N.D.	0.010	--
5	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)*	70136-72-0	N.D.	0.025	--

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No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL	Limit
			002	(mg/kg)	(mg/kg)
6	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI) (PFHxS-Ga)*	341035-71-0	N.D.	0.010	--
7	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc)*	350836-93-0	N.D.	0.010	--
8	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd)*	41184-65-0	N.D.	0.010	--
9	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y)*	41242-12-0	N.D.	0.010	--
10	Cesium Perfluorohexanesulfonate (PFHxS-Cs)*	92011-17-1	N.D.	0.020	--
11	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt (1:1)(PFHxS-NH <sub>4</sub> )*	68259-08-5	N.D.	0.010	--
12	<b>Perfluorohexane-1-sulphonic acid (PFHxS) and its salts</b>	--	<b>N.D.</b>	--	<b>0.025</b>
13	1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (PFHxSF)*	423-50-7	N.D.	0.010	--
14	1-Hexane-sulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (FHxSA)	41997-13-1	N.D.	0.010	--
15	N-methylperfluorohexanesulfonamide (MeFHxSA)	68259-15-4	N.D.	0.200	--
16	<b>Perfluorohexane-1-sulphonic acid (PFHxS) related substances</b>	--	<b>N.D.</b>	--	<b>1</b>

**Remark:**

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- \*Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).

**Sample/Part Description**

No.	CTI Sample ID	Description
1	002	Silvery metal

**Note:**

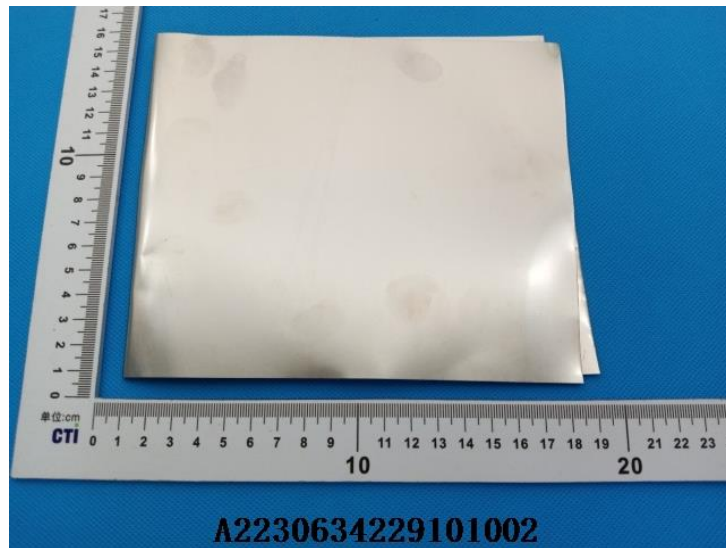
- “\*1” indicates the method(s) is (are) not in CNAS accreditation scope.

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## Photo(s) of the sample(s)



### Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

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