

Test Report No.: TAOEC24010276105 **Date:** Feb 14, 2025 Page 1 of 22

Client Name: Jiangsu DINGS' Intelligent Control Technology Co., LTD

Client Address: No. 2850 Luheng Road, Economic Development Zone, Changzhou, Jiangsu, 213025 China

Sample Name: Stepper Lead Screw Linear Actuator/Stepper Ball Screw Linear Actuator/Linear

Module/Gripper

17E2115Y4-85SNSN-150SZ Tested Basic Model No.:

Tested Extended Model No.: 17N2115Q4-173SMSN-150SZ/17C2115AA4-100SMSN-150SZ/17K2115K4-

100SMSN-150SZ/17E2115BS84-180RNN-030SZ/DLM50-17E2110L4-N-

001SZ/DMEG12-17N2115R4-R-101SZ

Client Ref. Information: E/N/C/K/BS/DLM/DSM/DSLM/DWM/DLG/DMEG

The above sample(s) and information were provided by the client.

SGS Job No.: SHP24-041710 Sample Receiving Date: Jan 10, 2025

Testing Period: Jan 10, 2025 ~ Jan 15, 2025

Test Requested: Select test(s) as requested by the client.

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

Test Requirement	Conclusion
Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH	
Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14	Pass
PFCA-related substances	

Signed for and on behalf of SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Justin Zhang **Approved Signatory**

Justin 2hang





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Test Result(s):

Photo of Submitted Sample



17E2115Y4-85SNSN-150SZ

TAO24-0102761





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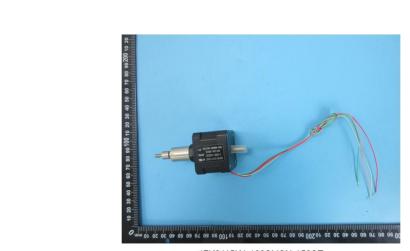


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17C2115AA4-100SMSN-150SZ

TAO24-0102761



17K2115K4-100SMSN-150SZ

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17E2115BS84-180RNN-030SZ

TAO24-0102761





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Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2+A9	TAO24-0102761-0008	White plastic + White plastic
SN2	A23+A24	TAO24-0102761-0009	Green plastic(jacket) + Green/white plastic
SN3	A25+A26	TAO24-0102761-0010	Red plastic(jacket) + Red/white plastic(jacket)
SN4	B1+C2	TAO24-0102761-0011	Beige plastic + White plastic
SN5	D1+E2	TAO24-0102761-0012	White plastic + Black plastic
SN6	E4+E5	TAO24-0102761-0013	Blue plastic(jacket) + Red plastic(jacket)
SN7	E6+E7	TAO24-0102761-0014	Black plastic(jacket) + Green plastic(jacket)
SN8	E8+F7	TAO24-0102761-0015	Black plastic + Black plastic
SN9	F9+G1	TAO24-0102761-0016	Yellow plastic + Red plastic(jacket)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances

Test Method: Modified EN 17681-1:2022 and EN 17681-2:2022, analysis was performed by LC-MS or LC-MS/MS and GC-MS.



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ricport	No TAGEC24010276105 Date. Feb 14, 2025				J Z J	Page 6 01 2	
Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2+A9	A23+A24	A25+A26
C9-C14 PFCA, the	ir salts						
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	μg/kg	10	ND	ND	ND
Perfluorodecane Acid (PFDA), its salts^	335-76-2	-	μg/kg	10	ND	ND	ND
Perfluoroundecan oic Acid (PFUnDA), its salts^	2058-94-8	-	μg/kg	10	ND	ND	ND
Perfluorododecan oic Acid (PFDoDA), its salts^	307-55-1	-	μg/kg	10	ND	ND	ND
Perfluorotridecan oic Acid (PFTrDA), its salts^	72629-94-8	-	μg/kg	10	ND	ND	ND
Perfluorotetradec anoic Acid (PFTDA), its salts^	376-06-7	-	µg/kg	10	ND	ND	ND
Perfluoro-3,7- dimethyloctanoic Acid (PF-3,7- DMOA)	172155-07-6	-	μg/kg	10	ND	ND	ND
Sum of C9-C14 PFCA, their salts	-	25	μg/kg	-	ND	ND	ND
C9-C14 PFCA-rela	ted substances		1				l
Perfluorodecane sulfonic acid (PFDS), its salts^	335-77-3	-	μg/kg	10	ND	ND	ND
1H,1H,2H,2H- Perfluoro-1- dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorododecyla crylate (10:2 FTA)	17741-60-5	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- perfluorotetradec an-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorododecan	120226-60-0	-	μg/kg	100	ND	ND	ND



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Toot Itom (a)	CACNO	l imait	Linit(a)	MDI	A2.A0	A 22 : A 24	A25 , A20
Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2+A9	A23+A24	A25+A26
e sulfonic acid							
(10:2 FTS), its							
salts^							
1,1,2,2-							
Tetrahydroperfluo	2043-54-1	-	μg/kg	100	ND	ND	ND
rododecyl iodide							
(10:2 FTI)							
1H,1H,2H,2H-							
Perfluorotetradec	30046-31-2	-	μg/kg	100	ND	ND	ND
yl iodide (12:2			100				
FTI)							
Perfluorononane	00050 40 4		,,	4.0		ND	ND
sulfonic acid	68259-12-1	-	µg/kg	10	ND	ND	ND
(PFNS), its salts^							
Perfluoroundecan							
e sulfonic acid	749786-16-1	_	μg/kg	10	ND	ND	ND
(PFUnDS), its			פיישיו				
salts^							
Perfluorododecan							
e sulfonic acid	79780-39-5	_	μg/kg	10	ND	ND	ND
(PFDoDS), its			1.9.1.9				
salts^							
Perfluorotridecan							
e sulfonic acid	791563-89-8	_	μg/kg	10	ND	ND	ND
(PFTrDS), its			1.9.1.9				
salts^							
10:2							
Fluortelomerphos	1895-26-7	_	μg/kg	100	ND	ND	ND
phatediester (10:2	1000 20 7		pg/Ng			,,,,	112
diPAP), its salts^							
Perfluorodecyl	423-62-1	_	μg/kg	100	ND	ND	ND
iodide (PFDI)			פיי שיי	. 55	5		
Perfluorododecyl	307-60-8	_	μg/kg	100	ND	ND	ND
iodide (PFDoDI)			פיי שיי	. 55	5		
2H-Perfluoro-2-							
dodecenoic acid	70887-94-4	-	μg/kg	100	ND	ND	ND
(10:2 FTUCA)							
2-Perfluorodecyl							
ethanoic acid	53826-13-4	-	μg/kg	100	ND	ND	ND
(10:2 FTCA)							
1H,1H,2H,2H-							
perfluorododecyl	37858-05-2	_	μg/kg	100	ND	ND	ND
acetate (10:2	07000-00-2	_	µg/Ng	100	'\0	140	ND
FTOAc)							
1H,1H,2H,2H-							
Perfluorodecanes	39108-34-4	_	μg/kg	10	ND	ND	ND
ulfonic acid (8:2	33100-34-4	_	µg/kg	10	IND	IND	
FTS), its salts^							



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or itcport	No.: TAGEC24010270105 Date. Feb 14, 2025			rage o oi z			
Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2+A9	A23+A24	A25+A26
1H,1H,2H,2H- Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND	ND	ND
2H,2H- Perfluorodecane Acid (8:2 FTCA), its salts^	27854-31-5	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H- Perfluoro-1- decanol (8:2 FTOH)	678-39-7	-	µg/kg	100	ND	ND	ND
1-lodo- 1H,1H,2H,2H- perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorodecyltriet hoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND	ND	ND
bis(3,3,4,4,5,5,6,6 ,7,7,8,8,9,9,10,10, 10- heptadecafluorod ecyl) hydrogen phosphate (8:2 diPAP), its salts^	678-41-1	-	µg/kg	10	ND	ND	ND
2H,2H,3H,3H- Perfluoroundecan oic Acid (8:3 FTCA), its salts^	34598-33-9	-	µg/kg	10	ND	ND	ND
1H,1H,2H- Heptadecafluoro- 1-decene (PFDE)	21652-58-4	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorodecyltric hlorosilane (8:2 FTSiCl ₃)/1H,1H,2 H,2H- Perfluorodecyltrim ethoxysilane (8:2 FTSi(OCH ₃) ₃)	78560-44-8 /83048-65-1	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	-	µg/kg	100	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2+A9	A23+A24	A25+A26
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP) , its salts^	57678-03-2	-	μg/kg	100	ND	ND	ND
10:2 Fluortelomerphos phatemonoester (10:2 monoPAP), its salts^	57678-05-4	-	μg/kg	100	ND	ND	ND
N- (4,4,5,5,6,6,7,7,8, 8,9,9,9- tridecafluorononyl)iodoacetamide	852527-50-5	-	μg/kg	10	ND	ND	ND
Sum of C9-C14 PFCA-related substances	-	260	μg/kg	-	ND	ND	ND
Conclusion		Pass	Pass	Pass			

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	B1+C2	D1+E2	E4+E5
C9-C14 PFCA, the	ir salts						
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	μg/kg	10	ND	ND	ND
Perfluorodecane Acid (PFDA), its salts^	335-76-2	ı	μg/kg	10	ND	ND	ND
Perfluoroundecan oic Acid (PFUnDA), its salts^	2058-94-8	-	µg/kg	10	ND	ND	ND
Perfluorododecan oic Acid (PFDoDA), its salts^	307-55-1	-	µg/kg	10	ND	ND	ND
Perfluorotridecan oic Acid (PFTrDA), its salts^	72629-94-8	1	µg/kg	10	ND	ND	ND
Perfluorotetradec anoic Acid (PFTDA), its salts^	376-06-7	1	µg/kg	10	ND	ND	ND
Perfluoro-3,7- dimethyloctanoic Acid (PF-3,7- DMOA)	172155-07-6	-	µg/kg	10	ND	ND	ND
Sum of C9-C14 PFCA, their salts	-	25	μg/kg	-	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	B1+C2	D1+E2	E4+E5
C9-C14 PFCA-rela	ted substances						
Perfluorodecane sulfonic acid (PFDS), its salts^	335-77-3	-	μg/kg	10	ND	ND	ND
1H,1H,2H,2H- Perfluoro-1- dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorododecyla crylate (10:2 FTA)	17741-60-5	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- perfluorotetradec an-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorododecan e sulfonic acid (10:2 FTS), its salts^	120226-60-0	-	μg/kg	100	ND	ND	ND
1,1,2,2- Tetrahydroperfluo rododecyl iodide (10:2 FTI)	2043-54-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorotetradec yl iodide (12:2 FTI)	30046-31-2	-	µg/kg	100	ND	ND	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	μg/kg	10	ND	ND	ND
Perfluoroundecan e sulfonic acid (PFUnDS), its salts^	749786-16-1	-	µg/kg	10	ND	ND	ND
Perfluorododecan e sulfonic acid (PFDoDS), its salts^	79780-39-5	-	μg/kg	10	ND	ND	ND
Perfluorotridecan e sulfonic acid (PFTrDS), its salts^	791563-89-8	-	μg/kg	10	ND	ND	ND
10:2 Fluortelomerphos	1895-26-7	-	μg/kg	100	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	B1+C2	D1+E2	E4+E5
phatediester (10:2 diPAP), its salts^							
Perfluorodecyl iodide (PFDI)	423-62-1	-	μg/kg	100	ND	ND	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	-	μg/kg	100	ND	ND	ND
2H-Perfluoro-2- dodecenoic acid (10:2 FTUCA)	70887-94-4	1	μg/kg	100	ND	ND	ND
2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- perfluorododecyl acetate (10:2 FTOAc)	37858-05-2	1	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorodecanes ulfonic acid (8:2 FTS), its salts^	39108-34-4	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H- Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND	ND	ND
2H,2H- Perfluorodecane Acid (8:2 FTCA), its salts^	27854-31-5	1	µg/kg	10	ND	ND	ND
1H,1H,2H,2H- Perfluoro-1- decanol (8:2 FTOH)	678-39-7	ı	µg/kg	100	ND	ND	ND
1-lodo- 1H,1H,2H,2H- perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorodecyltriet hoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND	ND	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts^	678-41-1	-	μg/kg	10	ND	ND	ND



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Test Report No.: TAOEC24010276105 **Date:** Feb 14, 2025 Page 12 of 22

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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	B1+C2	D1+E2	E4+E5	
2H,2H,3H,3H- Perfluoroundecan oic Acid (8:3 FTCA), its salts^	34598-33-9	-	μg/kg	10	ND	ND	ND	
1H,1H,2H- Heptadecafluoro- 1-decene (PFDE)	21652-58-4	-	μg/kg	100	ND	ND	ND	
1H,1H,2H,2H- Perfluorodecyltric hlorosilane (8:2 FTSiCl ₃)/1H,1H,2 H,2H- Perfluorodecyltrim ethoxysilane (8:2 FTSi(OCH ₃) ₃)	78560-44-8 /83048-65-1	1	μg/kg	100	ND	ND	ND	
1H,1H,2H,2H- perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	-	μg/kg	100	ND	ND	ND	
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP) , its salts^	57678-03-2	-	μg/kg	100	ND	ND	ND	
10:2 Fluortelomerphos phatemonoester (10:2 monoPAP), its salts^	57678-05-4	-	μg/kg	100	ND	ND	ND	
N- (4,4,5,5,6,6,7,7,8, 8,9,9,9- tridecafluorononyl)iodoacetamide	852527-50-5	-	μg/kg	10	ND	ND	ND	
Sum of C9-C14 PFCA-related substances	-	260	μg/kg	-	ND	ND	ND	
Conclusion					Pass	Pass	Pass	

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	E6+E7	E8+F7	F9+G1			
C9-C14 PFCA, their salts										
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	μg/kg	10	ND	ND	ND			
Perfluorodecane Acid (PFDA), its salts^	335-76-2	-	μg/kg	10	ND	ND	ND			
Perfluoroundecan oic Acid	2058-94-8	-	μg/kg	10	ND	ND	ND			



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Test Report No.: TAOEC24010276105 **Date:** Feb 14, 2025 Page 13 of 22

Test Item(s)		110 1710	LO240102	70100	Date	. 10017,20	220	r age 10 0
Salls^ Perfluorododecan Oic Acid (PFDDA), its Salts^ Perfluorotidecan Oic Acid (PFTDA), its Salts^ Perfluorotidecan Oic Acid (PFTDA), its Salts^ Perfluorotetradec Oic Acid (PFTDA), its Oic Acid (Oic Oic Oic Acid (Oic Oic Oic Oic Oic Oic Oic Oic Oic Oic	Test Item(s)	CAS No.	Limit	Unit(s)	MDL	E6+E7	E8+F7	F9+G1
Salls Partiuorododecan Oic Acid (PFDDA), its Salts Partiuorododecan Oic Acid (PFDDA), its Salts Partiuorotidecan Oic Acid (PFTDA), its Salts Partiuorotetradec Oic Acid (PFTDA), its Salts Oic Acid (PFTDA), its Oic Acid (Oic Acid (Oic Acid (Oic Acid (Oic Acid (Oic Oic Acid (Oic Acid (Oic Acid (Oic Acid (Oic Oic Acid (Oic Oic Acid (Oic Oic Oic Oic Oic Oic Oic Oic Oic Oic				` '				
Dic Acid (PFDDA), its salts^ Perfluorotridecan oic Acid (PFTDA), its salts^ Perfluorotridecan oic Acid (PFTDA), its salts^ Perfluorotandecan oic Acid (PF-3,7- DMOA) DMD ND ND ND ND ND ND N								
Dic Acid (PFDDA), its salts^ Perfluorotridecan oic Acid (PFTDA), its salts^ Perfluorotridecan oic Acid (PFTDA), its salts^ Perfluorotandecan oic Acid (PF-3,7- DMOA) DMD ND ND ND ND ND ND N	Perfluorododecan							
Perfluorotridecan oic Acid (PFTDA), its salts^ Perfluorotridecan oic Acid (PFTDA), its salts^ Perfluoroteradec anoic Acid (PFTDA), its salts^ Perfluoro-3,7-dimethyloctanoic Acid (PFTDA), its salts^ Perfluoro-3,7-dimethyloctanoic Acid (PFT,3,7-DMOA) T72155-07-6 - μg/kg 10 ND		007.55.4		,,	4.0	NID	ND	ND
Salts^ Perfluorotridecan Oic Acid (PFTrDA), its Salts^ Perfluorotetradec Acid (PFTrDA), its Salts^ Perfluorotetradec Acid (PFTDA), its Salts^ Perfluoro-3,7- Oimethyloctanoic Acid (PF-3,7- DMOA) Acid (PF-3,7- Acid (PF-3,7-		307-55-1	-	µд/кд	10	ND	ND	ND
Perfluorotridecan oic Acid (PFTDA), its salts^ Perfluorotetradec anoic Acid (PFTDA), its salts^ Perfluorotetradec anoic Acid (PFTDA), its salts^ Perfluorotatradec anoic Acid (PFTDA), its salts^ Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA) T72155-07-6 - μg/kg 10 ND								
Oic Acid (PFTrDA), its or 72629-94-8 -								
(PFTDA), its 10								
Salts^ Perfluorotetradec anoic Acid (PFTDA), its anoic Acid (PFT-3, refluorotetracic anoic Acid (PF-3, refluorotetracic anoic Acid (PFCA, reflated substances anoic Acid (PFCA, reflated substances anoic Acid (PFDS), its salts^ anoic Acid (PFDS), its salts^ anoic Acid (PFDS), its acid (PFDS), its acid anoic Acid (PFDS), its aci		72629-94-8	-	µg/kg	10	ND	ND	ND
Perfluorotetradec anoic Acid (PFTDA), its salts^ Perfluoro-3,7- Per								
anoic Acid (PFTDA), its salts^ Perfluoro-3,7- pug/kg 10 ND ND ND ND ND ND ND N								
(PFTDA), its salts^ Perfluoro-3,7- dimethyloctanoic Acid (PF-3,7- DMOA) PFCA, their salts Perfluorodecane sulfonic acid (PF-S, their salts PFCA, their salt								
Salts^ Perfluoro-3,7- dimethyloctanoic Acid (PF-3,7- DMOA) ND ND ND ND ND ND ND N		376-06-7	-	μg/kg	10	ND	ND	ND
Perfluoro-3,7- dimethyloctanoic Acid (PF-3,7- DMOA)								
dimethyloctanoic Acid (PF-3,7 DMOA) DMO ND ND ND ND ND ND ND N								
Acid (PF-3,7- DMOA) ND								
DMOA Sum of C9-C14 PFCA, their salts - 25 μg/kg - ND		172155-07-6	-	μg/kg	10	ND	ND	ND
Sum of C9-C14 PFCA, their salts -								
PFCA, their salts - 25 μg/kg - ND ND ND ND	,			_				
C9-C14 PFCA-related substances		-	25	μg/kg	-	ND	ND	ND
Perfluorodecane sulfonic acid (PFDS), its salts^ 11,11,21,21- 11,11,21,21- 2043-54-1 2043-54-1 2043-54-1 2043-54-1 2043-54-1 2043-54-1 2043-54-1 2043-54-1 2046-50 2048-54-1 2048-54-2 2048-54-		ted substances		ı				
sulfonic acid (PFDS), its salts^								
(PFDS), its salts^ 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) 865-86-1 - μg/kg 100 ND ND <td< td=""><td></td><td>335-77-3</td><td>_</td><td>ua/ka</td><td>10</td><td>ND</td><td>ND</td><td>ND</td></td<>		335-77-3	_	ua/ka	10	ND	ND	ND
1H,1H,2H,2H- Perfluoro-1- dodecanol (10:2 865-86-1 - μg/kg 100 ND ND ND ND ND ND ND		000 11 0		µg/Ng	.0	1,12	,,,,	112
Perfluoro-1-								
dodecanol (10:2 S65-86-1 - μg/kg 100 ND ND ND ND ND ND ND								
FTOH 1H,1H,2H,2H- Perfluorododecyla crylate (10:2 FTA) 1H,1H,2H,2H- Perfluorododecyl methacrylate (10:2 FTMA) 2144-54-9 - μg/kg 100 ND ND ND ND ND ND ND		865-86-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyla crylate (10:2 FTA) 17741-60-5 - μg/kg 100 ND ND <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Perfluorododecyla crylate (10:2 FTA) 17741-60-5 - μg/kg 100 ND ND ND ND ND ND ND								
crylate (10:2 FTA) 1H,1H,2H,2H-Perfluorododecyl methacrylate 2144-54-9 - μg/kg 100 ND ND <td></td> <td>17741-60-5</td> <td>-</td> <td>ua/ka</td> <td>100</td> <td>ND</td> <td>ND</td> <td>ND</td>		17741-60-5	-	ua/ka	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) 2144-54-9 - μg/kg 100 ND								
Perfluorododecyl methacrylate (10:2 FTMA)								
methacrylate (10:2 FTMA)								
(10:2 FTMA)		2144-54-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-perfluorotetradec an-1-ol (12:2 FTOH) 39239-77-5 - μg/kg 100 ND								
perfluorotetradec an-1-ol (12:2 FTOH) 39239-77-5 - μg/kg 100 ND ND <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
an-1-ol (12:2 FTOH) 1H,1H,2H,2H- Perfluorododecan e sulfonic acid (10:2 FTS), its salts^ 1,1,2,2- Tetrahydroperfluo rododecyl iodide (10:2 FTI) 1H,1H,2H,2H- 20046-31-2 μg/kg 100 ND		00000			400			
FTOH) 1H,1H,2H,2H- Perfluorododecan e sulfonic acid (10:2 FTS), its salts^ 1,1,2,2- Tetrahydroperfluo rododecyl iodide (10:2 FTI) 1H,1H,2H,2H- 20046 31 3		39239-77-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecan e sulfonic acid (10:2 FTS), its salts^ 120226-60-0 - μg/kg 100 ND								
Perfluorododecan e sulfonic acid (10:2 FTS), its salts^ 120226-60-0 - μg/kg 100 ND ND <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
e sulfonic acid (10:2 FTS), its salts^ 1,1,2,2- Tetrahydroperfluo rododecyl iodide (10:2 FTI) 1H,1H,2H,2H- 20046-31-3 120226-60-0 - μg/kg 100 ND								
(10:2 FTS), its salts^ 1,1,2,2- Tetrahydroperfluo rododecyl iodide (10:2 FTI) 1H,1H,2H,2H- 20046-31-2 ug/kg 100 ND		120226-60-0	-	µg/ka	100	ND	ND	ND
Salts^				פייפו				
1,1,2,2- Tetrahydroperfluo rododecyl iodide (10:2 FTI) 1H,1H,2H,2H- 20046-31-2 μg/kg 100 ND								
Tetrahydroperfluo rododecyl iodide (10:2 FTI) 1H,1H,2H,2H- 30046 31 3 μg/kg 100 ND								
rododecyl iodide (10:2 FTI) - µg/kg 100 ND		0040 =			465			
(10:2 FTI) 1H,1H,2H,2H- 30046 31 3		2043-54-1	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- 20046 31 2 Ug/kg 100 ND ND ND								
Perfluorotetradec								
	Perfluorotetradec	30046-31-2	-	μg/kg	100	ND	ND	ND



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st report	NO TAO	EC240102	70103	Date	. Feb 14, 20	020	rage 14 0
Test Item(s)	CAS No.	Limit	Unit(s)	MDL	E6+E7	E8+F7	F9+G1
yl iodide (12:2 FTI)							
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	μg/kg	10	ND	ND	ND
Perfluoroundecan e sulfonic acid (PFUnDS), its salts^	749786-16-1	-	μg/kg	10	ND	ND	ND
Perfluorododecan e sulfonic acid (PFDoDS), its salts^	79780-39-5	-	μg/kg	10	ND	ND	ND
Perfluorotridecan e sulfonic acid (PFTrDS), its salts^	791563-89-8	-	µg/kg	10	ND	ND	ND
10:2 Fluortelomerphos phatediester (10:2 diPAP), its salts^	1895-26-7	-	µg/kg	100	ND	ND	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	μg/kg	100	ND	ND	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	1	μg/kg	100	ND	ND	ND
2H-Perfluoro-2- dodecenoic acid (10:2 FTUCA)	70887-94-4	-	μg/kg	100	ND	ND	ND
2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	1	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- perfluorododecyl acetate (10:2 FTOAc)	37858-05-2	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorodecanes ulfonic acid (8:2 FTS), its salts^	39108-34-4	-	μg/kg	10	ND	ND	ND
1H,1H,2H,2H- Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	μg/kg	100	ND	ND	ND
2H,2H- Perfluorodecane Acid (8:2 FTCA), its salts^	27854-31-5	-	μg/kg	10	ND	ND	ND



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si Kepori	No.: TAO	EC240102	76105	Date	: Feb 14, 20)25	Page 15 o
Test Item(s)	CAS No.	Limit	Unit(s)	MDL	E6+E7	E8+F7	F9+G1
1H,1H,2H,2H- Perfluoro-1- decanol (8:2 FTOH)	678-39-7	-	μg/kg	100	ND	ND	ND
1-lodo- 1H,1H,2H,2H- perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorodecyltriet hoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND	ND	ND
bis(3,3,4,4,5,5,6,6 ,7,7,8,8,9,9,10,10, 10- heptadecafluorod ecyl) hydrogen phosphate (8:2 diPAP), its salts^	678-41-1	-	μg/kg	10	ND	ND	ND
2H,2H,3H,3H- Perfluoroundecan oic Acid (8:3 FTCA), its salts^	34598-33-9	-	µg/kg	10	ND	ND	ND
1H,1H,2H- Heptadecafluoro- 1-decene (PFDE)	21652-58-4	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- Perfluorodecyltric hlorosilane (8:2 FTSiCl ₃)/1H,1H,2 H,2H- Perfluorodecyltrim ethoxysilane (8:2 FTSi(OCH ₃) ₃)	78560-44-8 /83048-65-1	-	μg/kg	100	ND	ND	ND
1H,1H,2H,2H- perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	-	µg/kg	100	ND	ND	ND
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP) , its salts^	57678-03-2	-	μg/kg	100	ND	ND	ND
10:2 Fluortelomerphos phatemonoester (10:2 monoPAP), its salts^	57678-05-4	-	μg/kg	100	ND	ND	ND
N- (4,4,5,5,6,6,7,7,8,	852527-50-5	-	μg/kg	10	ND	ND	ND



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Test Report No.: TAOEC24010276105 **Date:** Feb 14, 2025 Page 16 of 22

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	E6+E7	E8+F7	F9+G1
8,9,9,9-							
tridecafluorononyl							
)iodoacetamide							
Sum of C9-C14							
PFCA-related	-	260	μg/kg	-	ND	ND	ND
substances							
Conclusion		•	•		Pass	Pass	Pass

Notes:

- (1) $1\mu g/kg=1ppb$.
- (2) Until 25 August 2024, the concentration limit shall be 2000 ppb for the sum of C9-C14 PFCAs in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups. From 25 August 2024, the concentration limit shall be 100 ppb for the sum of C9-C14 PFCAs, in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups.
- (3) The concentration limit shall be 1000ppb for the sum of C9-C14 PFCAs, where these are present in PTFE micro powders produced by ionising irradiation or by thermal degradation, as well as in mixtures and articles for industrial and professional uses containing PTFE micro powders.
- (4) ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
PFNA, its salts	
Perfluorononane Acid (PFNA)	375-95-1
Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8
Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4
Potassium perfluorononanoate (PFNA-K)	21049-38-7
Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3
Silver perfluorononanoate (PFNA-Ag)	7358-16-9
Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) PFNA-NH ₂ (C_2H_5) ₂)	77032-27-0
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-NH ₂ (CH ₃) ₂)	77032-24-7
Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)	327176-80-7
Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	95682-66-9
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with benzenamine (1:1) (PFNA-NH ₃ (C_6H_5))	95682-67-0
Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2
Perfluorononanoate (anion)	72007-68-2
4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-C ₁₁ H ₁₂ N ₄ O ₃ S)	298703-33-0
Perfluorononanoic anhydride (PFNAA)	228407-54-3
PFDA, its salts	
Perfluorodecane Acid (PFDA)	335-76-2
Sodium perfluorodecanoate (PFDA-Na)	3830-45-3
Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7



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- topoit	110	17401024010270103	Date: 1 cb 14, 2025
Potassium per	fluorodecanoa	ite (PFDA-K)	51604-85-4
Silver perfluore	decanoate (P	FDA-Ag)	5784-82-7
Lithium perfluc	rodecanoate ((PFDA-Li)	84743-32-8
Perfluorodecar	noate (anion)		73829-36-4
Perfluorodecar	noic anhydride	(PFDAA)	942199-24-8
PFUnDA, its s	alts		
Perfluorounde	canoic Acid (P	FUnDA)	2058-94-8
Perfluorounde	canoic acid so	dium salt (PFUnDA-Na)	60871-96-7
Ammonium pe	rfluoroundeca	noate (PFUnDA-NH₄)	4234-23-5
Potassium per	fluoroundecan	oate (PFUnDA-K)	30377-53-8
Calcium perflu	oroundecanoa	ite (PFUnDA-Ca)	97163-17-2
Perfluorounde	canoate (anior	n)	196859-54-8
PFDoDA, its sa	alts		
Perfluorodode	canoic Acid (P	FDoDA)	307-55-1
Ammonium tric	cosafluorodode	ecanoate (PFDoDA-NH ₄)	3793-74-6
Perfluorodode	canoate (anior	n)	171978-95-3
PFTrDA, its sa	lts		
Perfluorotrided	anoic Acid (Pf	-TrDA)	72629-94-8
Ammonium pe	rfluorotridecar	noate (PFTrDA-NH ₄)	4288-72-6
Sodium perfluc	orotridecanoat	e (PFTrDA-Na)	60872-01-7
Perfluorotrided	anoate (anior	1)	862374-87-6
PFTDA, its sal	ts		·
Perfluorotetrac	lecanoic Acid	(PFTDA)	376-06-7
Perfluorotetrac	lecanoate (ani	on)	365971-87-5
PFDS, its salts	;	·	
Perfluorodecar	ne Sulfonate (I	PFDS)	335-77-3
Perfluorodecar	nesulfonate Na	a-salt (PFDS-Na)	2806-15-7
Perfluorodecar	nesulfonate K-	salt (PFDS-K)	2806-16-8
Perfluorodecar	nesulfonic acid	ammonium salt (PFDS-NH ₄)	67906-42-7
Perfluorodecar	ne sulfonate (a	anion)	126105-34-8
Perfluorodecar	ne sulfonic anh	nydride (PFDSA)	51667-62-0
PFNS, its salts	i	,	·
Perfluoro nona	ne sulfonic ac	id (PFNS)	68259-12-1
Sodium perfluc	ro-1-nonanes	ulfonate (PFNS-Na)	98789-57-2
		onanesulphonate (PFNS-NH	4) 17202-41-4
		sulfonate (PFNS-K)	29359-39-5
Perfluoronona	ne sulfonate (a	anion)	474511-07-4
PFUnDS, its sa	alts		<u> </u>
•		acid (PFUnDS)	749786-16-1
Perfluorounde		,	441296-91-9
PFDoDS, its sa			
Perfluorodode		cid (PFDoDS)	79780-39-5
		esulfonate (PFDoDS-Na)	1260224-54-1
•		esulfonate (PFDoDS-K)	85187-17-3
Perfluorodode		, ,	343629-43-6
PFTrDS, its sa		- /	1 2 2 2 2 3 6
Perfluorotrided		cid (PFTrDS)	791563-89-8
		esulfonate (PFTrDS-Na)	174675-49-1
pormat			5.5 15 1



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10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7
Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol	57677-98-2
(10:2 diPAP-C ₄ H ₁₁ O ₂)	
8:2 FTS, its salts	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
Potassium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-K)	438237-73-1
Ammonium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-NH ₄)	149724-40-3
Sodium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-Na)	27619-96-1
2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7
8:2 FTCA, its salts	
2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-31-5
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-	882489-14-7
$P(C_4H_9)_4$	
8:2 diPAP, its salts	
Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)	678-41-1
hydrogen phosphate (8:2 diPAP)	
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2 diPAP-Na)	114519-85-6
Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen	57677-97-1
phosphate	
Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-	93776-20-6
NH ₄)	
8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1
8:3 FTCA, its salts	
2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1
2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8
8:2 monoPAP, its salts	
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2
8:2 Fluorotelomer diammonium phosphate	93857-44-4
Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3
Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium	92401-44-0
salt	
Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0
Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6
Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8
10:2 monoPAP, its salts	
10:2 Fluortelomerphosphatemonoester (10:2 monoPAP)	57678-05-4
10:2 Fluorotelomer diammonium dihydrogen phosphate	93857-45-5
	•

⁽⁵⁾ The conclusion is only applicable to the substance list in the report.

Based on the material risk assessment results, the selected parts in the sample photos were tested and conclusions were drawn.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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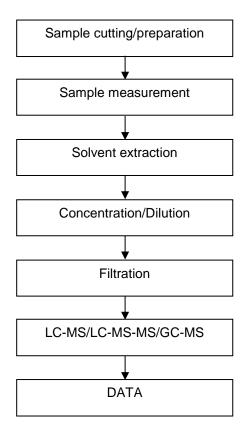
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Test Report ATTACHMENTS

No.: TAOEC24010276105 **Date:** Feb 14, 2025

PFASs/ PFOS/PFOA Testing Flow Chart





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17F2115Y4-85SNSN-150SZ



17N2115Q4-173SMSN-150SZ



17C2115AA4-100SMSN-150SZ



17K2115K4-100SMSN-150SZ



17E2115BS84-180RNN-030SZ



DLM50-17E2110L4-N-001SZ



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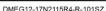
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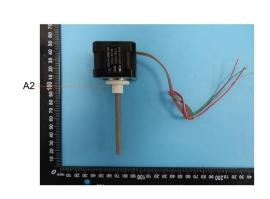
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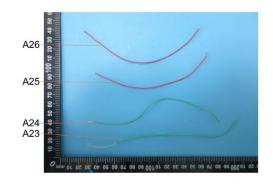
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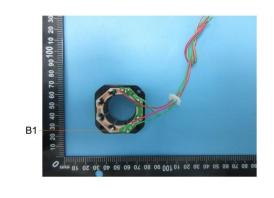


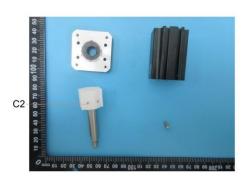














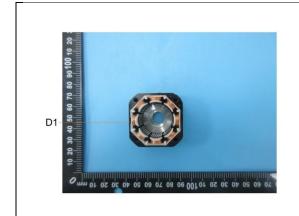
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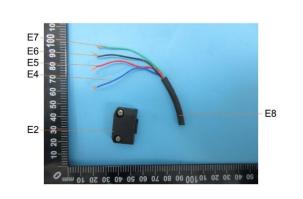
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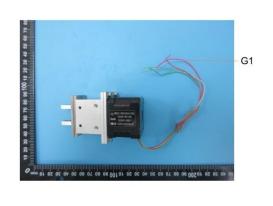


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