

Test Report

No.: SHAEC24008505501

Date: May 08, 2024

Page 1 of 6

Client Name: SUZHOU XINLVZHOU ELECTRONICS CO., LTD.

Client Address: SHANJI ROAD 158,XIANGCHENG DISTRICT,SUZHOU CITY,JIANGSU,CHINA.

Sample Name: WARRIORS NI-MH 1.2VAA 600MAH

Client Ref. Information: WARRIORS NI-MH 1.2V AA 300MAH,
WARRIORS NI-MH 1.2V AA400MAH,
WARRIORS NI-MH 1.2V AA 500MAH,
WARRIORS NI-MH 1.2VAA 600MAH,
WARRIORS NI-MH 1.2V AA 700MAH,
WARRIORS NI-MH1.2V AA 800MAH,
WARRIORS NI-MH 1.2V AA 1000MAH,
WARRIORS NI-MH 1.2V AA 1200MAH,
WARRIORS NI-MH 1.2V AA 1500MAH,
WARRIORSNI-MH 1.2V AA 1800MAH,
WARRIORS NI-MH 1.2V AA 2000MAH,
WARRIORS NI-MH 1.2V AA 2500MAH,
WARRIORS NI-MH 1.2V AAA300MAH,
WARRIORS NI-MH 1.2V AAA 400MAH,
WARRIORS NI-MH 1.2VAAA 500MAH,
WARRIORS NI-MH 1.2V AAA 600MAH,
WARRIORS NI-MH1.2V AAA 700MAH,
WARRIORS NI-MH 1.2V AAA 800MAH

Sample Type: Portable battery (non zinc air button cell)

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

SGS Job No.: SHP24-013091

Sample Receiving Date: Apr 28, 2024

Testing Period: Apr 28, 2024 ~ May 08, 2024

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).

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

Carol Luo

Carol Luo

Approved Signatory

scan to see the report



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No.: SHAEC24008505501

Date: May 08, 2024

Page 2 of 6

Test Requirement	Conclusion
Regulation (EU) No 2023/1542 Article 6(1), 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	Pass

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0085055-0001.C001	Silver button cell

Remarks:

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

Regulation (EU) No 2023/1542 Article 6(1), 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: With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
C9-C14 PFCA, their salts					
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	µg/kg	10	ND
Perfluorodecane Acid (PFDA), its salts^	335-76-2	-	µg/kg	10	ND
Perfluoroundecanoic Acid (PFUnDA), its salts^	2058-94-8	-	µg/kg	10	ND
Perfluorododecanoic Acid (PFDoDA), its salts^	307-55-1	-	µg/kg	10	ND
Perfluorotridecanoic Acid (PFTTrDA), its salts^	72629-94-8	-	µg/kg	10	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	-	µg/kg	10	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	µg/kg	10	ND
Sum of C9-C14 PFCA, their salts	-	25	µg/kg	-	ND
C9-C14 PFCA-related substances					
Perfluorodecane Sulfonate (PFDS), its salts^	335-77-3	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	µg/kg	100	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	-	µg/kg	10	ND



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Test Report

No.: SHAEC24008505501

Date: May 08, 2024

Page 3 of 6

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	µg/kg	100	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	µg/kg	10	ND
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1 / 441296-91-9 (anion)	-	µg/kg	10	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	µg/kg	10	ND
Perfluorotridecane sulfonic acid (PFTrDS), its salts^	791563-89-8	-	µg/kg	10	ND
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	-	µg/kg	100	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	µg/kg	100	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts^	39108-34-4	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts^	27854-31-5	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	µg/kg	100	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts^	678-41-1	-	µg/kg	10	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts^	34598-33-9	-	µg/kg	10	ND
1H,1H,2H-Heptafluoro-1-decene (PFDE)	21652-58-4	-	µg/kg	100	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND
Conclusion					Pass

Notes:

(1) 1µg/kg=1ppb.

(2) PFNA and its salts* including PFNA (CAS No. 375-95-1), PFNA-Na (CAS No. 21049-39-8) and PFNA-NH₄ (CAS No. 4149-60-4). The result of PFNA is used to represent PFNA and its salts. PFDA and its salts* including PFDA (CAS No. 335-76-2), PFDA-Na (CAS No. 3830-45-3) and PFDA-NH₄ (CAS No. 3108-42-7). The result of PFDA is used to represent PFDA and its salts. Perfluorododecanoic Acid (PFDoDA) and its salts* including PFDoDA (CAS No. 307-55-1) and PFDoDA-NH₄ (CAS No. 3793-74-6). The result of PFDoDA is used to represent PFDoDA and its salts. PFDS and its salts* including PFDS (CAS No. 335-77-



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Test Report

No.: SHAEC24008505501

Date: May 08, 2024

Page 4 of 6

3), PFDS-Na (CAS No. 2806-15-7), PFDS-K (CAS No. 2806-16-8) and PFDS-NH₄ (CAS No. 67906-42-7), The result of PFDS is used to represent PFDS and its salts. 2H,2H-Perfluorodecane Acid (H₂PFDA/8:2 FTCA) and its salts / derivative * including H₂PFDA/8:2 FTCA (CAS No. 27854-31-5) and Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C₄H₉)₄) (CAS No. 882489-14-7). The result of H₂PFDA/8:2 FTCA is used to represent H₂PFDA/8:2 FTCA and its salts / derivative.

(3) Until 25 August 2024, the concentration limit 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.

(4) 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.

(5) Recommended requirement with reference to Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (Effective date: 25 February 2023).

(6) Regulation (EU) 2023/1542 concerning batteries and waste batteries Article 6(1): In addition to the restrictions set out in Annex XVII to Regulation (EC) No 1907/2006 and in Article 4(2), point (a), of Directive 2000/53/EC, batteries shall not contain substances for which Annex I to this Regulation contains a restriction unless the conditions of that restriction are complied with.

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.

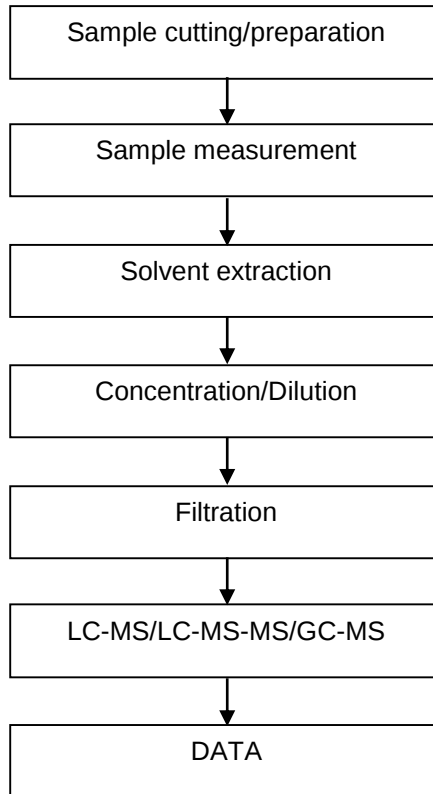


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PFASs/ PFOS/PFOA Testing Flow Chart



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No.: SHAEC24008505501

Date: May 08, 2024

Page 6 of 6

Sample Photo:



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