

## Test Report

No.: CANEC25021330113

Date: Sep 05, 2025

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Client Name: NEOGRAF SOLUTIONS, LLC

Client Address: 11709 MADISON AVENUE LAKEWOOD, OHIO 44107 USA

Sample Name: SPREADERSHIELD™ Plain

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

SGS Job No.: GZP25-023940

Sample Receiving Date: Aug 28, 2025

Testing Period: Aug 28, 2025 ~ Sep 04, 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  |
|---|-------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass        |
| Halogen   | See Results |
| US California Proposition 65- Phthalate   | Pass        |
| Element(s)  | See Results |
| Polychlorinated Biphenyls (PCBs)  | See Results |
| European Regulation POPs (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-related compounds, Perfluorooctane sulfonic acid (PFOS) and its salts, PFOS-related compounds   | Pass        |

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Allie Chen

Allie Chen

Approved Signatory

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### Test Result(s):

#### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                            |
|-------|------------|-------------------------|--|
| SN1   | A10        | CAN25-0213301-0001.C010 | Silver-black sheet with black printing |

#### Remarks:

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

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s)                              | Limit | Unit(s) | MDL | A10 |
|---|-------|---------|-----|-----|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | ND  |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND  |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND  |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND  |
| Polybromobiphenyl (PBB)                   | 1000  | mg/kg   | -   | ND  |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 5   | ND  |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 5   | ND  |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 5   | ND  |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 5   | ND  |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 5   | ND  |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 5   | ND  |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 5   | ND  |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 5   | ND  |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 5   | ND  |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 5   | ND  |
| Polybromodiphenyl ether (PBDE)            | 1000  | mg/kg   | -   | ND  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 5   | ND  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 5   | ND  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 5   | ND  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 5   | ND  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 5   | ND  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 5   | ND  |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 5   | ND  |



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| Test Item(s)                            | Limit | Unit(s) | MDL | A10 |
|---|-------|---------|-----|-----|
| Octabrominated diphenyl ether (OctaBDE) | -     | mg/kg   | 5   | ND  |
| Nonabrominated diphenyl ether (NonaBDE) | -     | mg/kg   | 5   | ND  |
| Decabrominated diphenyl ether (DecaBDE) | -     | mg/kg   | 5   | ND  |
| Bis(2-ethylhexyl) phthalate (DEHP)      | 1000  | mg/kg   | 50  | ND  |
| Butyl benzyl phthalate (BBP)            | 1000  | mg/kg   | 50  | ND  |
| Dibutyl phthalate (DBP)                 | 1000  | mg/kg   | 50  | ND  |
| Diisobutyl phthalate (DIBP)             | 1000  | mg/kg   | 50  | ND  |

### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

### Halogen

**Test Method:** With reference to EN 14582:2016, analysis was performed by IC.

| Test Item(s) | Unit(s) | MDL | A10 |
|--------------|---------|-----|-----|
| Fluorine(F)  | mg/kg   | 20  | ND  |
| Chlorine(Cl) | mg/kg   | 50  | ND  |
| Bromine(Br)  | mg/kg   | 50  | ND  |
| Iodine(I)    | mg/kg   | 50  | ND  |

### US California Proposition 65- Phthalate

**Test Method:** With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

| Test Item(s)                       | CAS No.                   | Limit | Unit(s) | MDL | A10         |
|------------------------------------|---------------------------|-------|---------|-----|-------------|
| Dibutyl Phthalate(DBP)             | 84-74-2                   | 1000  | mg/kg   | 50  | ND          |
| Benzyl Butyl Phthalate(BBP)        | 85-68-7                   | 1000  | mg/kg   | 50  | ND          |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 117-81-7                  | 1000  | mg/kg   | 50  | ND          |
| Diisononyl Phthalate (DINP)        | 28553-12-0<br>/68515-48-0 | 1000  | mg/kg   | 50  | ND          |
| Diisodecyl Phthalate (DIDP)        | 26761-40-0<br>/68515-49-1 | 1000  | mg/kg   | 50  | ND          |
| Di-n-Hexyl Phthalate(DnHP)         | 84-75-3                   | 1000  | mg/kg   | 50  | ND          |
| <b>Conclusion</b>                  |                           |       |         |     | <b>Pass</b> |

### Notes:

- (1) The limit is referenced to the requirement specified in Settlement Agreement between Marin Court Case No. CIV 091146 and County of Santa Clara Case No. 114CV267501.
- (2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical. A manufacturer or retailer that is not named in the referenced



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settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

**Element(s)**

**Test Method:** With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.

| Test Item(s)  | Unit(s) | MDL | A10 |
|---------------|---------|-----|-----|
| Beryllium(Be) | mg/kg   | 5   | ND  |
| Antimony(Sb)  | mg/kg   | 10  | ND  |

**Polychlorinated Biphenyls (PCBs)**

**Test Method:** SGS In-house method, analysis was performed by GC-ECD/GC-MS.

| Test Item(s)                                 | CAS No.    | Unit(s) | MDL | A10 |
|--|------------|---------|-----|-----|
| 2,4,4'-Trichlorobiphenyl(PCB28)              | 7012-37-5  | mg/kg   | 0.5 | ND  |
| 2,2',5,5'-Tetrachlorobiphenyl(PCB52)         | 35693-99-3 | mg/kg   | 0.5 | ND  |
| 2,2',4,5,5'-Pentachlorobiphenyl(PCB101)      | 37680-73-2 | mg/kg   | 0.5 | ND  |
| 2,3',4,4',5-Pentachlorobiphenyl(PCB118)      | 31508-00-6 | mg/kg   | 0.5 | ND  |
| 2,2',3,4,4',5'-Hexachlorobiphenyl(PCB138)    | 35065-28-2 | mg/kg   | 0.5 | ND  |
| 2,2',4,4',5,5'-Hexachlorobiphenyl(PCB153)    | 35065-27-1 | mg/kg   | 0.5 | ND  |
| 2,2',3,4,4',5,5'-Heptachlorobiphenyl(PCB180) | 35065-29-3 | mg/kg   | 0.5 | ND  |

**European Regulation POPs (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-related compounds, Perfluorooctane sulfonic acid (PFOS) and its salts, PFOS-related compounds**

**Test Method:** Modified EN 17681-1:2025, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

| Test Item(s)   | CAS No.    | Limit | Unit(s) | MDL   | A10 |
|--|------------|-------|---------|-------|-----|
| <b>PFOS, its salts</b>                                       |            |       |         |       |     |
| Perfluorooctane sulfonic acid (PFOS), its salts <sup>^</sup> | 1763-23-1  | 0.025 | mg/kg   | 0.010 | ND  |
| <b>PFOS-related compounds</b>                                |            |       |         |       |     |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)              | 4151-50-2  | -     | mg/kg   | 0.010 | ND  |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)             | 31506-32-8 | -     | mg/kg   | 0.010 | ND  |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)  | 1691-99-2  | -     | mg/kg   | 0.010 | ND  |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | 24448-09-7 | -     | mg/kg   | 0.010 | ND  |
| Perfluorooctane sulfonamide (PFOSA), its salts <sup>^</sup>  | 754-91-6   | -     | mg/kg   | 0.010 | ND  |



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| Test Item(s)  | CAS No.                 | Limit | Unit(s) | MDL   | A10 |
|---|-------------------------|-------|---------|-------|-----|
| Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts <sup>^</sup>  | 2806-24-8               | -     | mg/kg   | 0.010 | ND  |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts <sup>^</sup>  | 2355-31-9               | -     | mg/kg   | 0.010 | ND  |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts <sup>^</sup>   | 2991-50-6               | -     | mg/kg   | 0.010 | ND  |
| Sum of PFOS-related compounds   | -                       | 1     | mg/kg   | -     | ND  |
| <b>PFOA, its salts</b>  |                         |       |         |       |     |
| Perfluorooctanoic acid (PFOA), its salts <sup>^</sup>   | 335-67-1                | 0.025 | mg/kg   | 0.010 | ND  |
| <b>PFOA-related compounds</b>   |                         |       |         |       |     |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts <sup>^</sup>  | 39108-34-4              | 1     | mg/kg   | 0.010 | ND  |
| Methyl perfluorooctanoate (Me-PFOA)   | 376-27-2                | 1     | mg/kg   | 0.200 | ND  |
| Ethyl perfluorooctanoate (Et-PFOA)  | 3108-24-5               | 1     | mg/kg   | 0.200 | ND  |
| 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)  | 1996-88-9               | 1     | mg/kg   | 0.100 | ND  |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)   | 27905-45-9              | 1     | mg/kg   | 0.100 | ND  |
| Perfluoro-1-iodooctane (PFOI)   | 507-63-1                | 1     | mg/kg   | 0.200 | ND  |
| 2H,2H-Perfluorodecane Acid (8:2 FTCA), its salts <sup>^</sup>   | 27854-31-5              | 1     | mg/kg   | 0.010 | ND  |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)  | 678-39-7                | 1     | mg/kg   | 0.100 | ND  |
| 1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)  | 2043-53-0               | 1     | mg/kg   | 0.100 | ND  |
| 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )   | 101947-16-4             | 1     | mg/kg   | 0.100 | 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 <sup>^</sup>   | 678-41-1                | 1     | mg/kg   | 0.010 | ND  |
| 2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA), its salts <sup>^</sup>   | 34598-33-9              | 1     | mg/kg   | 0.010 | ND  |
| 1H,1H,2H-Heptafluorodecyl-1-decene (PFDE)   | 21652-58-4              | 1     | mg/kg   | 0.100 | ND  |
| 3-Perfluoroheptyl propanoic acid (7:3 FTCA)   | 812-70-4                | 1     | mg/kg   | 0.010 | ND  |
| 1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl <sub>3</sub> ) / 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH <sub>3</sub> ) <sub>3</sub> ) | 78560-44-8 / 83048-65-1 | 1     | mg/kg   | 0.100 | ND  |
| 2H-Perfluoro-2-decenoic acid (8:2 FTUCA)  | 70887-84-2              | 1     | mg/kg   | 0.010 | ND  |
| 6:8 Perfluorophosphinic acid (6:8 PFPI)   | 610800-34-5             | 1     | mg/kg   | 0.010 | ND  |
| 8:8 Perfluorophosphinic acid (8:8 PFPI), its salts <sup>^</sup>   | 40143-79-1              | 1     | mg/kg   | 0.010 | ND  |



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| Test Item(s)  | CAS No.    | Limit | Unit(s) | MDL   | A10         |
|---|------------|-------|---------|-------|-------------|
| 1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)                              | 37858-04-1 | 1     | mg/kg   | 0.100 | ND          |
| 8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), its salts <sup>^</sup> | 57678-03-2 | 1     | mg/kg   | 0.100 | ND          |
| Sum of PFOA-related compounds   | -          | 1     | mg/kg   | -     | ND          |
| <b>Conclusion</b>   |            |       |         |       | <b>Pass</b> |

### Notes:

(1) According to Regulation (EU) 2025/718 amending Regulation (EU) 2019/1021 Annex I, the concentrations of PFOS or any of its salts equal to or below 0,025 mg/kg (0,000025 % by weight) and all PFOS-related compounds equal to or below 1 mg/kg (0,0001 % by weight) where they are present in substances, mixtures or in articles. Date of applicability: From 3 December 2025.

(2) <sup>^</sup>=Substances refer to its salts/derivative listed in below table.

| Substance Name   | CAS No.      |
|--|--------------|
| <b>PFOS, its salts &amp; derivatives</b>   |              |
| Perfluorooctane sulfonic acid (PFOS)   | 1763-23-1    |
| Potassium Perfluorooctanesulfonate (PFOS-K)  | 2795-39-3    |
| Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)   | 29457-72-5   |
| Sodium perfluorooctanesulfonate (PFOS-Na)  | 4021-47-0    |
| Ammonium perfluorooctanesulfonate (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   |
| Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )  | 56773-42-3   |
| N-decyl-N,N-dimethyldecyl-1-aminium<br>1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate<br>(PFOS-N(C <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> ) | 251099-16-8  |
| TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )   | 111873-33-7  |
| Perfluorooctane Sulfonyl fluoride (PFOS-F)   | 307-35-7     |
| Magnesium bis(heptafluorooctanesulphonate) (PFOS-Mg)   | 91036-71-4   |
| Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate  | 71463-74-6   |
| Perfluorooctanesulfonate   | 45298-90-6   |
| Triethylammonium perfluorooctane sulfonate (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )  | 54439-46-2   |
| Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )   | 56773-44-5   |
| N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate<br>(PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> ))   | 56773-56-9   |
| N,N-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate<br>(PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))  | 124472-68-0  |
| Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)   | 213740-80-8  |
| Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate   | 258341-99-0  |
| 1-Hexadecylpyridinium perfluoro-1-octanesulfonate  | 334529-63-4  |
| N,N,N-Triethyldecyl-1-aminium heptafluorooctane-1-sulfonate  | 773895-92-4  |
| Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )  | 2185049-59-4 |



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|  |              |
|--|--------------|
| Perfluorooctanesulfonic acid diethylamine salt (PFOS-C <sub>4</sub> H <sub>11</sub> N)   | 2205029-08-7 |
| heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium<br>heptadecafluorooctane-1-sulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> ) | 1203998-97-3 |
| Perfluorooctane sulfonic anhydride (PFOSAN)  | 423-92-7     |
| Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)  | 423-60-9     |
| <b>FOSAA, its salts</b>  |              |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA)   | 2806-24-8    |
| N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))   | 909405-47-6  |
| N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)   | 75260-69-4   |
| N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)   | 115716-87-5  |
| <b>N-MeFOSAA, its salts</b>  |              |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)   | 2355-31-9    |
| 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))  | 909405-48-7  |
| Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)   | 70281-93-5   |
| <b>N-EtFOSAA, its salts</b>  |              |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)  | 2991-50-6    |
| Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)  | 2991-51-7    |
| 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))  | 909405-49-8  |
| Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH <sub>4</sub> )  | 2991-52-8    |
| Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)  | 3871-50-9    |
| <b>PFOSA, its salts</b>  |              |
| Perfluorooctane Sulfonamide (PFOSA)  | 754-91-6     |
| Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)   | 76752-79-9   |
| Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)  | 76752-78-8   |
| Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)  | 76752-70-0   |
| Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH <sub>4</sub> )  | 76752-72-2   |
| Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)                                       | 76752-82-4   |
| <b>PFOA, its salts &amp; derivatives</b>   |              |
| Perfluorooctanoic acid (PFOA)  | 335-67-1     |
| Sodium perfluorooctanoate (PFOA-Na)  | 335-95-5     |
| Potassium perfluorooctanoate (PFOA-K)  | 2395-00-8    |
| Silver perfluorooctanoate (PFOA-Ag)  | 335-93-3     |
| Perfluorooctanoyl fluoride (PFOA-F)  | 335-66-0     |
| Ammonium pentadecafluorooctanoate (APFO)   | 3825-26-1    |
| Lithium perfluorooctanoate (PFOA-Li)   | 17125-58-5   |
| Cobalt perfluorooctanoate (PFOA-Co)  | 35965-01-6   |
| Cesium perfluorooctanoate (PFOA-Cs)  | 17125-60-9   |
| Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-,   | 68141-02-6   |



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|  |              |
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| chromium(3+) (PFOA-Cr(3+))   |              |
| Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C <sub>4</sub> H <sub>10</sub> N))                   | 423-52-9     |
| Pentadecafluorooctanoate (anion)   | 45285-51-6   |
| Perfluorooctanoic Anhydride  | 33496-48-9   |
| N,N,N-Triethylethanaminium perfluorooctanoate  | 98241-25-9   |
| Perfluorooctanoate N,N,N-Trimethylmethanaminium  | 32609-65-7   |
| Tetrapropylammonium perfluorooctanoate   | 277749-00-5  |
| Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )                   | 98065-31-7   |
| Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)                   | 1376936-03-6 |
| Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C <sub>5</sub> H <sub>5</sub> N)                          | 95658-47-2   |
| pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> ) | 1514-68-7    |
| N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C <sub>11</sub> H <sub>26</sub> N)             | 927835-01-6  |
| Pentadecafluorooctanoyl chloride (PFOA-Cl)   | 335-64-8     |
| <b>8:2 FTS, its salts</b>  |              |
| 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 <sub>4</sub> )                                   | 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  |
| 2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)   | 27619-90-5   |
| <b>8:2 FTCA, its salts</b>   |              |
| 2H,2H-Perfluorodecane Acid (8:2 FTCA)  | 27854-31-5   |
| Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )    | 882489-14-7  |
| <b>8:2diPAP, its salts</b>   |              |
| Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2diPAP)                 | 678-41-1     |
| Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)  | 114519-85-6  |
| Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate                                    | 57677-97-1   |
| Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH <sub>4</sub> )                            | 93776-20-6   |
| 8:2 Fluorotelomer phosphate diester ion (1-)   | 1411713-91-1 |
| <b>8:3 FTCA, its salts</b>   |              |
| 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   |
| <b>8:8 PFPI, its salts</b>   |              |
| 8:8 Perfluorophosphinic acid (8:8 PFPI)  | 40143-79-1   |
| Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPI-Na)   | 500776-69-2  |
| Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPI-Er)  | 500776-70-5  |
| Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPI-Yb)   | 500776-71-6  |



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| 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 salt | 92401-44-0  |
| Sodium 1H,1H,2H,2H-perfluorooctylphosphate                             | 144965-22-0 |
| Monopotassium monoperfluorohexyl ethylphosphate                        | 150033-28-6 |
| Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate                    | 2353-52-8   |

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

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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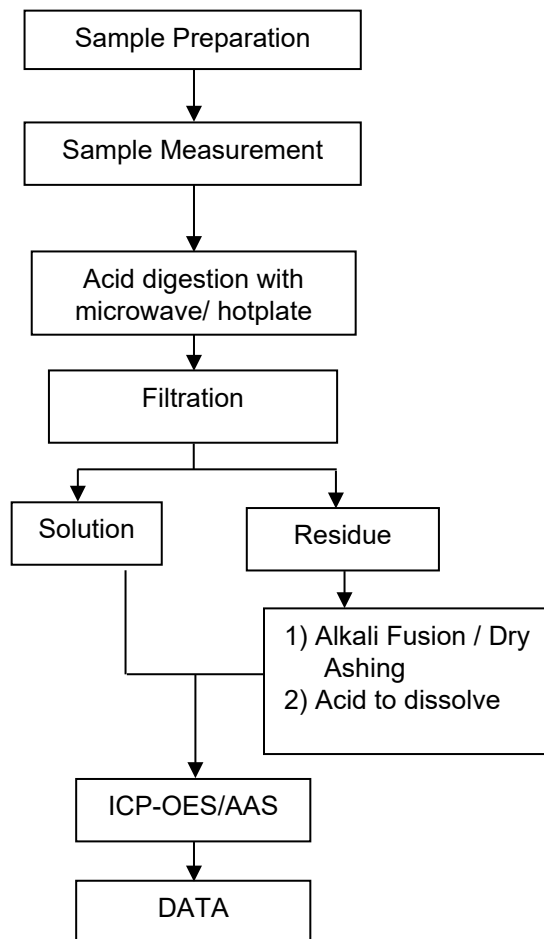
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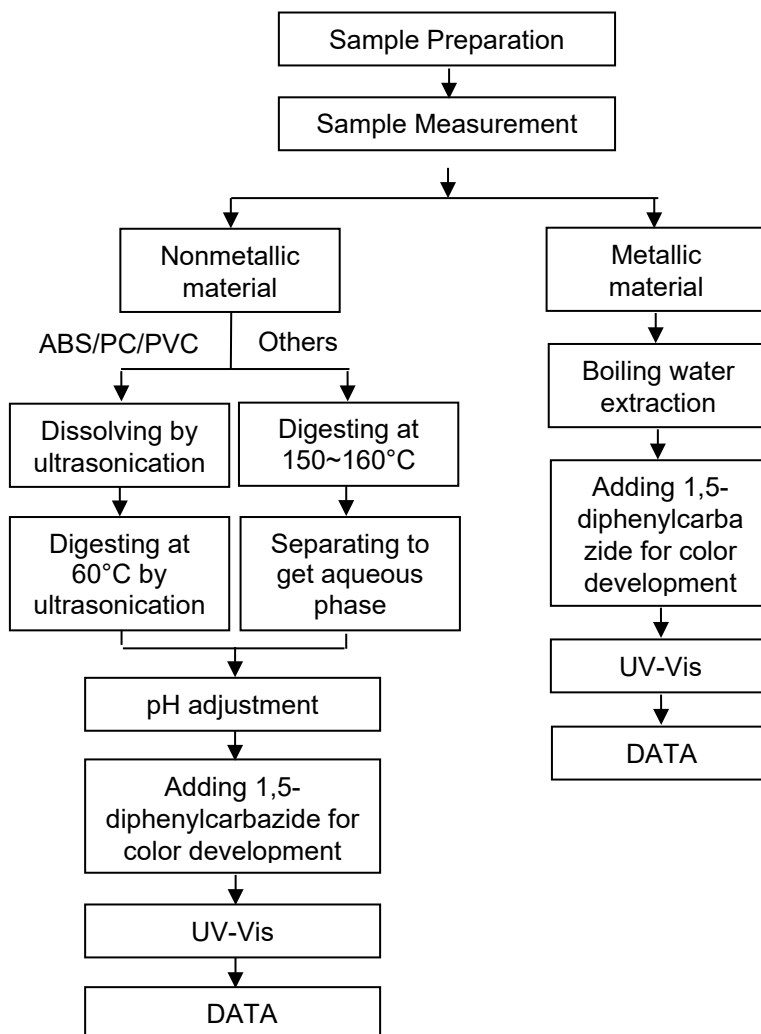
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### Elements Testing Flow Chart

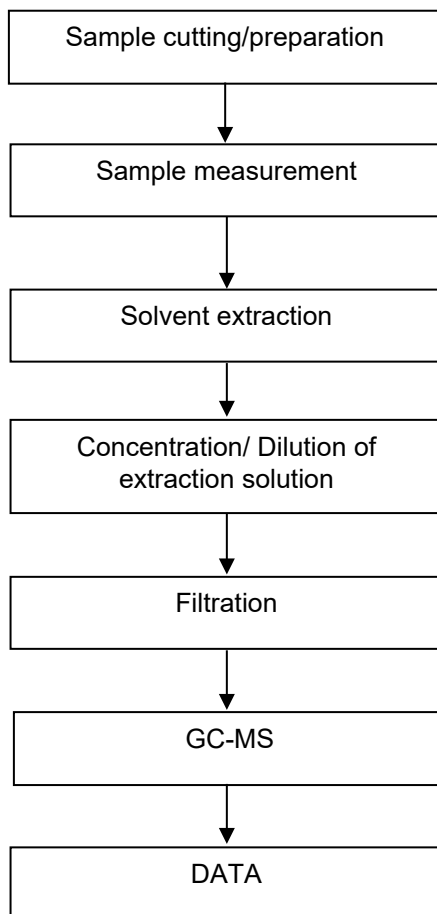
These samples were dissolved totally by pre-conditioning method according to below flow chart.



#### Hexavalent Chromium (Cr(VI)) Testing Flow Chart



#### PBB(s)/PBDE(s) Testing Flow Chart

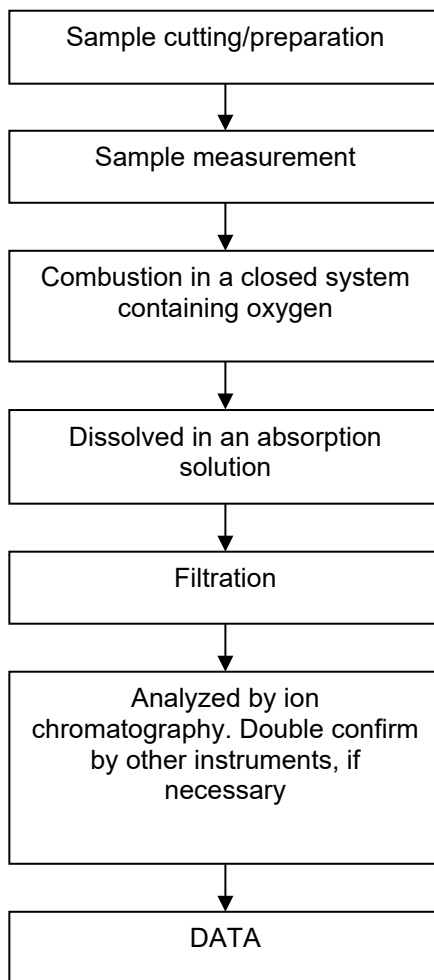




#### Phthalates Testing Flow Chart



#### Halogen Testing Flow Chart



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### Elements Testing Flow Chart



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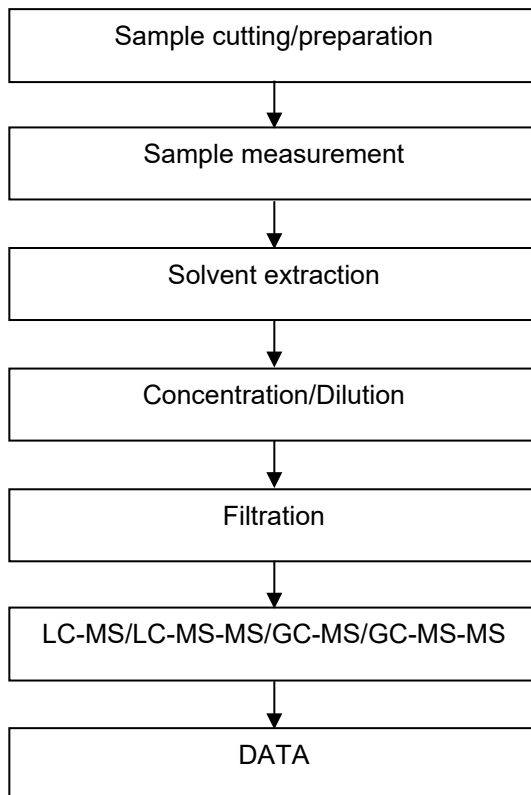
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## PFASs/ PFOS/PFOA Testing Flow Chart





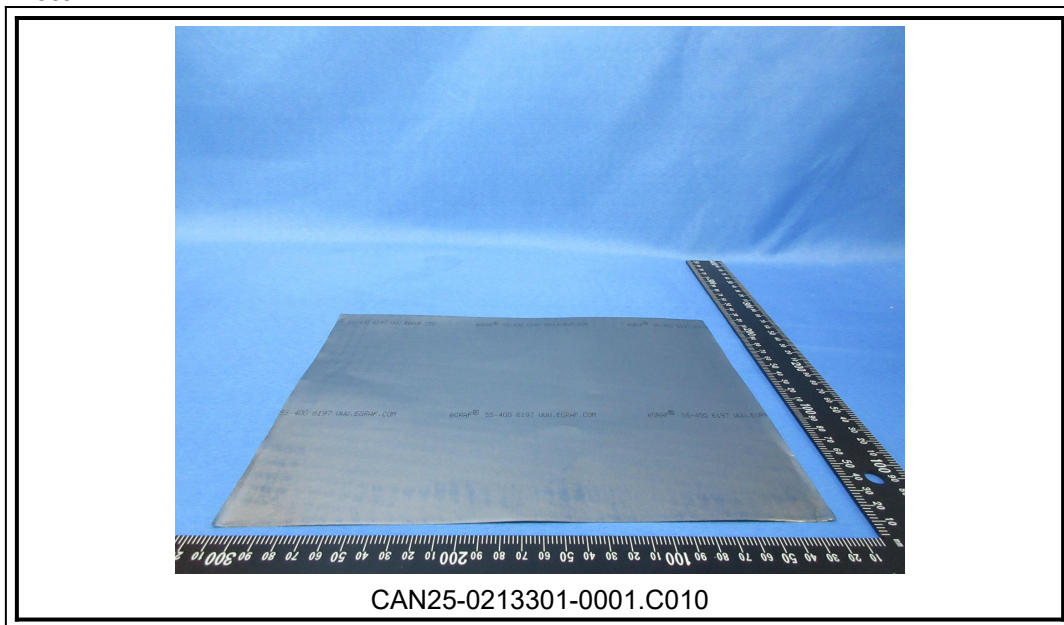
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Sample Photo:



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