

**Test Report No.**: CANEC25018484509 **Date**: Aug 06, 2025 Page 1 of 16

Client Name: Uniroyal Electronics Industry Co., Ltd.

Client Address: 88 Longteng Road, Economic & Technical Development Zone, Kunshan City, Jiangsu,

CHINA

Sample Name: Metal Glaze Film Fixed Resistors

Buyer: Uniroyal Electronics Global Co.,Ltd.

Supplier: Uniroyal Electronics Industry Co., Ltd.

Aeon Technology Corporation Co.,Ltd.

Royal Electronic Factory (Thailand) Co.,Ltd.

Royal Technology (Thailand) Co.,Ltd. UNUS TECHNOLOGY CORPORATION

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

SGS Job No.: XMP25-003438 Sample Receiving Date: Jul 29, 2025

Testing Period: Jul 29, 2025 ~ Aug 06, 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 |
|--|------------|
| Draft regulations to European Regulation POPs (EU) 2019/1021 Annex I and                           | Pass       |
| its amendments   | 1 855      |
| European Regulation POPs (EU) 2019/1021 Annex I– Alkanes C <sub>10</sub> -C <sub>13</sub> , chloro | Pass       |
| (short chain-chlorinated paraffins) (SCCPs)  | rass       |
| European Regulation POPs (EU) 2024/2570 amending Regulation (EU)                                   |            |
| 2019/1021 Annex I–Hexabromocyclododecane (HBCDD) and all major                                     | Pass       |
| diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)  |            |
| European Regulation POPs (EU) 2025/718 amending Regulation (EU)                                    |            |
| 2019/1021 Annex I - Perfluorooctanoic acid (PFOA) and its salts, PFOA-                             | Pass       |
| related compounds, Perfluorooctane sulfonic acid (PFOS) and its salts, PFOS-                       | Fass       |
| related compounds  |            |
| European Regulation POPs (EU) 2021/277 amending Regulation (EU)                                    | Pass       |
| 2019/1021 Annex I– Pentachlorophenol (PCP) and its salts and esters                                | rass       |

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

Janny Zhong

Jany Zhong

Approved Signatory





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| Test Requirement  | Conclusion |
|---|------------|
| European Regulation POPs (EU) 2023/1608 amending Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds | Pass       |
| European Regulation POPs (EU) 2019/1021 Annex I–Halogenated compounds   | Pass       |
| European Regulation POPs (EU) 2025/843 amending Regulation (EU) 2019/1021 Annex I -UV-328                                       | Pass       |

#### Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                               |
|-------|------------|-------------------------|---|
| SN1   | A3         | CAN25-0184845-0001.C003 | Light blue body with multi-color printing |

#### Remarks:

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

#### <u>Draft regulations to European Regulation POPs (EU) 2019/1021 Annex I and its amendments</u>

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

| Test Item(s)        | CAS No.      | Limit | Unit(s) | MDL | A3   |
|---------------------|--------------|-------|---------|-----|------|
|                     | 13560-89-9   |       |         |     |      |
| Dechlorane Plus(DP) | /135821-03-3 | 1     | mg/kg   | 1   | ND   |
|                     | /135821-74-8 |       |         |     |      |
| Conclusion          |              |       |         |     | Pass |

#### Notes

(1) Proposed effective date of Dechlorane Plus is February 26, 2025.

# <u>European Regulation POPs (EU) 2019/1021 Annex I– Alkanes C<sub>10</sub>-C<sub>13</sub>, chloro (short chain-chlorinated paraffins) (SCCPs)</u>

**Test Method:** With reference to ISO 22818:2021, analysis was performed by GC-NCI-MS.

| Test Item(s)   | CAS No.                  | Limit | Unit(s) | MDL | A3   |
|--|--------------------------|-------|---------|-----|------|
| Alkanes, C <sub>10</sub> -C <sub>13</sub> , chloro (short chain-<br>chlorinated paraffins) (SCCPs) | 85535-84-8<br>and others | 1500  | mg/kg   | 50  | ND   |
| Conclusion   |                          |       |         |     | Pass |

## European Regulation POPs (EU) 2024/2570 amending Regulation (EU) 2019/1021 Annex I– Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)

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



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| Test Item(s)                      | CAS No.      | Limit   | Unit(s) | MDL  | A3 |
|-----------------------------------|--------------|---------|---------|------|----|
| (110000)                          | 134237-50-6  |         |         |      |    |
| Hexabromocyclododecane (HBCDD)    | /134237-51-7 | <b></b> | ,,      | 00   | ND |
| and its main diastereoisomers (α- | /134237-52-8 | 75      | mg/kg   | 20   | ND |
| HBCDD, β-HBCDD, γ-HBCDD)          | /25637-99-4  |         |         |      |    |
|                                   | /3194-55-6   |         |         |      |    |
| Conclusion                        |              |         |         | Pass |    |

#### Notes:

(1) The exemptions laid down shall be reviewed and assessed by the Commission by 1 January 2026.

<u>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</u>

**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   | A3 |
|--|------------|-------|---------|-------|----|
| PFOS, its salts  |            |       |         |       |    |
| Perfluorooctane sulfonic acid (PFOS), its salts^                                 | 1763-23-1  | 0.025 | mg/kg   | 0.010 | ND |
| PFOS-related compounds   |            |       |         |       |    |
| 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-<br>octanesulfonamido) -ethanol (N-<br>MeFOSE)           | 24448-09-7 | -     | mg/kg   | 0.010 | ND |
| Perfluorooctane sulfonamide (PFOSA), its salts^                                  | 754-91-6   | -     | mg/kg   | 0.010 | ND |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^                       | 2806-24-8  | -     | mg/kg   | 0.010 | ND |
| N-Methylperfluoro-1-<br>octanesulfonamidoacetic Acid (N-<br>MeFOSAA), its salts^ | 2355-31-9  | -     | mg/kg   | 0.010 | ND |
| N-Ethylperfluorooctane<br>sulfonamidoacetic Acid (N-EtFOSAA), its<br>salts^      | 2991-50-6  | -     | mg/kg   | 0.010 | ND |
| Sum of PFOS-related compounds  | -          | 1     | mg/kg   | -     | ND |
| PFOA, its salts  |            |       |         |       |    |
| Perfluorooctanoic acid (PFOA), its salts^  | 335-67-1   | 0.025 | mg/kg   | 0.010 | ND |
| PFOA-related compounds   |            |       |         |       |    |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts^                   | 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 |



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| <b>24.0.</b> Aug 66, 2020   |                           |       |         |       |      |
|---|---------------------------|-------|---------|-------|------|
| Test Item(s)  | CAS No.                   | Limit | Unit(s) | MDL   | A3   |
| 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^   | 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-lodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)  | 2043-53-0                 | 1     | mg/kg   | 0.100 | ND   |
| 1H,1H,2H,2H-<br>Perfluorodecyltriethoxysilane (8:2<br>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-heptadecafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts ^  | 678-41-1                  | 1     | mg/kg   | 0.010 | ND   |
| 2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA), its salts^   | 34598-33-9                | 1     | mg/kg   | 0.010 | ND   |
| 1H,1H,2H-Heptadecafluoro-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-<br>Perfluorodecyltrichlorosilane (8:2<br>FTSiCl <sub>3</sub> )/<br>1H,1H,2H,2H-<br>Perfluorodecyltrimethoxysilane (8:2<br>FTSi(OCH <sub>3</sub> ) <sub>3</sub> ) | 78560-44-8<br>/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^   | 40143-79-1                | 1     | mg/kg   | 0.010 | ND   |
| 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^   | 57678-03-2                | 1     | mg/kg   | 0.100 | ND   |
| Sum of PFOA-related compounds   | -                         | 1     | mg/kg   | -     | ND   |
| Conclusion  |                           |       |         |       | Pass |

#### 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 (0,0000025 % 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) ^=Substances refer to its salts/derivative listed in below table.

| Substance Name                | CAS No. |
|-------------------------------|---------|
| PFOS, its salts & derivatives |         |



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| 110: OANLO23010404000 Date:   | Aug 00, 2029   |
|---|----------------|
| 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-   | 56773-42-3     |
| $N(C_2H_5)_4)$  |                |
| N-decyl-N,N-dimethyldecan-1-aminium   | 251099-16-8    |
| 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate   |                |
| $(PFOS-N(C_{10}H_{21})_2(CH_3)_2)$  |                |
| 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(heptadecafluorooctanesulphonate) (PFOS-Mg)  | 91036-71-4     |
| Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-   | 71463-74-6     |
| heptadecafluorooctanesulfonate  |                |
| 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     |
| $N,N,N-Tripropylpentan-1-aminium\ heptadeca fluorooctane-1-sulfonate$   | 56773-56-9     |
| $(PFOS-N(C_3H_7)_3(C_5H_{11}))$   |                |
| N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-  | 124472-68-0    |
| sulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))                                    |                |
| lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-   | 213740-80-8    |
| octanesulfonic acid (1:1)   |                |
| lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:  | 258341-99-0    |
| 1-Hexadecylpyridinium perfluoro-1-octanesulfonate   | 334529-63-4    |
| N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate   | 773895-92-4    |
| Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P $(C_4H_9)_4$ ))   | 2185049-59-4   |
| 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   | 1203998-97-3   |
| heptadecafluorooctane-1-sulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> )                             |                |
| Perfluorooctane sulfonic anhydride (PFOSAN)   | 423-92-7       |
| Perfluoro-1-octanesulfonyl chloride (PFOS-CI)   | 423-60-9       |
| FOSAA, its salts  |                |
| 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    |
| N-MeFOSAA, its salts  |                |
| 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-   | 70281-93-5     |



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| Me-FOSAA-K)                                    |  |   |
|--|--|---|
| N-EtFOSAA, its salts                           |  |   |
| N-Ethylperfluorooctane sulfo                   | namidoacetic Acid (N-EtFOSAA)                          | 2991-50-6                                   |
| Glycine, N-ethyl-N-[(heptade                   | cafluorooctyl)sulfonyl]-, potassium                    | salt (N- 2991-51-7                          |
| Et-FOSAA-K)                                    |  |   |
|  | ılfonamido)acetate (N-Et-FOSAA(a                       | **  |
|  | rooctanesulfonamido)acetate (N-E                       | Et- 2991-52-8                               |
| FOSAA-NH <sub>4</sub> )                        |  |   |
| , -,   | ctanesulfonamido)acetate (N-Et-F0                      | OSAA- 3871-50-9                             |
| Na)  |  |   |
| PFOSA, its salts                               |  |   |
| Perfluorooctane Sulfonamide                    | e (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                          | 4) 76752-72-2                               |
|  | lphonamide, compound with triethy                      | ylamine 76752-82-4                          |
| (1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N) |  |   |
| PFOA, its salts & derivative                   | es   |   |
| Perfluorooctanoic acid (PFO                    | A)   | 335-67-1                                    |
| Sodium perfluorooctanoate (                    | PFOA-Na)   | 335-95-5                                    |
| Potassium perfluorooctanoat                    | te (PFOA-K)  | 2395-00-8                                   |
| Silver perfluorooctanote (PF                   | OA-Ag)   | 335-93-3                                    |
| Perfluorooctanoyl fluoride (P                  | FOA-F)   | 335-66-0                                    |
| Ammonium pentadecafluoro                       | octanoate (APFO)                                       | 3825-26-1                                   |
| Lithium perfluorooctanoate (l                  | PFOA-Li)   | 17125-58-5                                  |
| Cobalt perfluorooctanoate (F                   | PFOA-Co)   | 35965-01-6                                  |
| Cesium perfluorooctanoate (                    | PFOA-Cs)   | 17125-60-9                                  |
| Octanoic acid, 2,2,3,3,4,4,5,5                 | 5,6,6,7,7,8,8,8-pentadecafluoro-,                      | 68141-02-6                                  |
| chromium(3+) (PFOA-Cr(3+)                      | ))   |   |
| Pentadecafluorooctanoic aci                    | dpiperazine (2/1) (PFOA-NH(C₄F                         | H <sub>10</sub> N)) 423-52-9                |
| Pentadecafluorooctanoate (a                    | anion)   | 45285-51-6                                  |
| Perfluorooctanoic Anhydride                    |  | 33496-48-9                                  |
| N,N,N-Triethylethanaminium                     | perfluorooctanoate                                     | 98241-25-9                                  |
| Perfluorooctanoate N,N,N-Tr                    | imethylmethanaminium                                   | 32609-65-7                                  |
| Tetrapropylammonium perflu                     | ıorooctanoate  | 277749-00-5                                 |
| Potassium pentadecafluoroo                     | ctanoatewater (1/1/2) (PFOA-K(F                        | H <sub>2</sub> O) <sub>2</sub> ) 98065-31-7 |
| Perfluorooctanoic acid comp                    | d. with ethanamine (1:1) (PFOA-C                       | <sub>2</sub> H <sub>7</sub> N) 1376936-03-6 |
| Pentadecafluorooctanoic aci                    | dpyridine (1/1) (PFOA-C <sub>5</sub> H <sub>5</sub> N) | 95658-47-2                                  |
|  | d- 1-phenylpiperazine(1:1) (PFOA-                      | 1514-68-7                                   |
|  | nium pentadecafluorooctanoate (P                       | FOA- 927835-01-6                            |



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| citoport            | NO CANEC23010404309                           | <b>Date.</b> Aug 00, 2023        |
|---------------------|---|----------------------------------|
| Pentadecafluoroo    | ctanoyl chloride (PFOA-CI)                    | 335-64-8                         |
| 8:2 FTS, its salts  |   |                                  |
| 1H,1H,2H,2H-Perl    | fluorodecanesulfonic acid (8:2 FTS)           | 39108-34-4                       |
| Potassium 1H,1H,    | ,2H,2H-Perfluorodencane sulfonate (8:2 FT     | S-K) 438237-73-1                 |
| Ammonium 1H,1H      | ੀ,2H,2H-Perfluorodencane sulfonate (8:2 Fੀ    | ΓS-NH <sub>4</sub> ) 149724-40-3 |
| Sodium 1H,1H,2H     | I,2H-Perfluorodencane sulfonate (8:2 FTS-N    | Na) 27619-96-1                   |
| 2-(Perfluorooctyl)  | ethane-1-sulfonate (8:2 FTS(anion))           | 481071-78-7                      |
| 2-(Perfluorooctyl)  | ethanesulfonyl chloride (8:2 FTS-CI)          | 27619-90-5                       |
| 8:2 FTCA, its salt  | ts  | <u>.</u>                         |
| 2H,2H-Perfluorode   | ecane Acid (8:2 FTCA)                         | 27854-31-5                       |
| Tetrabutylphospho   | onium 2H,2H-Perfluorodecanoate (8:2 FTC/      | A- 882489-14-7                   |
| $P(C_4H_9)_4)$      |   |                                  |
| 8:2diPAP, its salt  | ts  |                                  |
| Bis(3,3,4,4,5,5,6,6 | 6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl   | 678-41-1                         |
| hydrogen phospha    | ate (8:2diPAP)                                |                                  |
| Sodium bis(1H,1H    | H,2H,2H-perfluorodecyl)phosphate (8:2diPA     | P-Na) 114519-85-6                |
| Bis(2-hydroxyethy   | d)ammonium bis((perfluorooctyl)ethyl) hydro   | ogen 57677-97-1                  |
| phosphate           |   |                                  |
| Bis[2-(perfluorooc  | tyl)ethyl] phosphate ammonium salt (8:2 diF   | PAP-NH <sub>4</sub> ) 93776-20-6 |
| 8:2 Fluorotelomer   | phosphate diester ion (1-)                    | 1411713-91-1                     |
| 8:3 FTCA, its salt  | ts  | ·                                |
| 2H,2H,3H,3H-Perl    | fluoroundecanoic acid (8:3 FTCA)              | 34598-33-9                       |
| Potassium 2H,2H,    | ,3H,3H-Perfluoroundecanoate (8:3 FTCA-K       | ) 83310-58-1                     |
| 2H,2H,3H,3H-Perl    | fluoroundecanoate (8:3 FTCA-Li)               | 67304-23-8                       |
| 8:8 PFPi, its salts | 5   | <u>.</u>                         |
| 8:8 Perfluorophos   | phinic acid (8:8 PFPi)                        | 40143-79-1                       |
| Bis(heptadecafluo   | rooctyl)phosphinic Acid Sodium Salt (8:8 Pl   | FPi-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 PFF | Pi-Yb) 500776-71-6               |
| 8:2 monoPAP, its    | s salts                                       | •                                |
| 8:2 Fluorotelomer   | phosphate monoester (8:2 monoPAP)             | 57678-03-2                       |
| 8:2 Fluorotelomer   | diammonium phosphate                          | 93857-44-4                       |
| Disodium 1H,1H,2    | 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 | 7,8,8,8-Tridecafluorooctanol phosphate amn    | nonium 92401-44-0                |
| salt                |   |                                  |
| Sodium 1H,1H,2H     | I,2H-perfluorooctylphosphate                  | 144965-22-0                      |
| Monopotassium m     | nonoperfluorohexyl ethylphosphate             | 150033-28-6                      |
| Ammonium 2-(per     | fluorohexyl)ethyl hydrogen phosphate          | 2353-52-8                        |
|                     |   |                                  |

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



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# European Regulation POPs (EU) 2021/277 amending Regulation (EU) 2019/1021 Annex I–Pentachlorophenol (PCP) and its salts and esters

**Test Method:** With reference to EN 17134-2:2023, analysis was performed by GC-MS.

| Test Item(s)                                     | CAS No.               | Limit | Unit(s) | MDL | A3   |
|--|-----------------------|-------|---------|-----|------|
| Pentachlorophenol (PCP) and its salts and esters | 87-86-5<br>and others | 5     | mg/kg   | 0.5 | ND   |
| Conclusion                                       |                       |       |         |     | Pass |

## <u>European Regulation POPs (EU) 2023/1608 amending Regulation (EU) 2019/1021 Annex I-PFHxS, its</u> salts and PFHxS 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   | A3 |
|--|------------|-------|---------|-------|----|
| PFHxS, its salts   |            |       |         |       |    |
| Perfluorohexanesulfonic acid (PFHxS), its salts^   | 355-46-4   | 0.025 | mg/kg   | 0.010 | ND |
| PFHxS-related compounds  |            |       |         |       |    |
| N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)  | 68259-15-4 | 1     | mg/kg   | 0.010 | ND |
| Perfluorohexane sulfonamide (PFHxSA)   | 41997-13-1 | 1     | mg/kg   | 0.010 | ND |
| N-[3-(dimethylamino)propyl]<br>tridecafluorohexanesulphonamide (N-AP-FHxSA)  | 50598-28-2 | 1     | mg/kg   | 0.010 | ND |
| 2-[methyl[(tridecafluorohexyl)<br>sulphonyl]amino]ethyl acrylate)) (N-<br>MeFHSEA)   | 67584-57-0 | 1     | mg/kg   | 0.200 | ND |
| 2-Propenoic acid, 2-methyl-, 2-<br>[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-<br>tridecafluorohexyl)sulfonyl]amino]ethyl<br>ester | 67584-61-6 | 1     | mg/kg   | 0.200 | ND |
| 2-Propenoic acid, 2-methyl-, 2-<br>[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-<br>tridecafluorohexyl)sulfonyl]amino]ethyl<br>ester  | 67906-70-1 | 1     | mg/kg   | 0.200 | ND |
| 1-Hexanesulfonamide,<br>1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-<br>(2-hydroxyethyl)-N-methyl-(MeFHxSE)                  | 68555-75-9 | 1     | mg/kg   | 0.010 | ND |
| Glycine, N-ethyl-N- [(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl] (EtFHxSAA), its salts^                       | 68957-32-4 | 1     | mg/kg   | 0.010 | ND |
| Sum of PFHxS-related compounds   | -          | 1     | mg/kg   | -     | ND |
| Conclusion   |            |       |         |       |    |

#### **Notes**

(1) Commission Delegated Regulation (EU) 2023/1608 of May 30, 2023, amending Regulation (EU)



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2019/1021 Annex I as regard the listing of perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds, Official Journal of the EU, August 8, 2023.

| Substance  | Scope                               | Specific exemption on intermediate use or other specification   |
|--|-------------------------------------|---|
| PFHxS and its salts                                | Substances,<br>mixtures or articles | ≤ 0.025 mg/kg   |
| PFHxS-related compounds                            | Substances,<br>mixtures or articles | ≤ 1 mg/kg (individual or sum of all)  |
| PFHxS, its salts and<br>PFHxS-related<br>compounds | Concentrated firefighting foam      | ≤ 0.1 mg/kg (to be reviewed within three years after entry into force of this amending regulation with a view to lower the limit) |

- (2) The tested perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds refer to the "Listed under the POPs Regulation" of ECHA, please find more information via below weblink: https://echa.europa.eu/list-of-substances-proposed-as-pops
- (3) ^=Substances refer to its salts/derivative listed in below table

| 355-46-4     |
|--------------|
| 82382-12-5   |
| 3871-99-6    |
| 55120-77-9   |
|              |
| 68259-08-5   |
| 1000597-52-3 |
|              |
| 108427-54-9  |
|              |
| 108427-55-0  |
|              |
| 1187817-57-7 |
|              |
| 1310480-24-0 |
|              |
|              |
|              |
| 1310480-27-3 |
|              |
|              |
|              |
| 1310480-28-4 |
|              |
|              |



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| ot itcport  | NO              | CANEC250 10404509   | Date. F                         | lug 00, 2025 |
|---|-----------------|---|---------------------------------|--------------|
| 1,1,2,2,3,3,4,4,5                                     | ,5,6,6,6-trided | cafluoro-1-hexanesulfonate (1:1   | ) (PFHxS-                       |              |
| $(NC_8H_{10})_2C_{17}H_{12}$                          | )               |   |                                 |              |
| Beta-Cyclodextri                                      | n, compd. wit   | th 1,1,2,2,3,3,4,4,5,5,6,6,6-tride  | cafluoro-1-                     | 1329995-45-0 |
| hexanesulfonic a                                      | cid ion(1-)(1:  | 1) (PFHxS-C <sub>42</sub> H <sub>70</sub> O <sub>35</sub> )                                     |                                 |              |
| Gamma-Cyclode   | extrin, compd.  | with 1,1,2,2,3,3,4,4,5,5,6,6,6-   |                                 | 1329995-69-8 |
| tridecafluoro-1-h                                     | exanesulfonio   | c acid ion(1-)(1:1)(PFHxS-C <sub>48</sub> H <sub>8</sub>  | <sub>30</sub> O <sub>40</sub> ) |              |
| Sulfonium, triphe                                     | enyl-, 1,1,2,2, | 3,3,4,4,5,5,6,6,6-tridecafluoro-1   | -                               | 144116-10-9  |
| hexanesulfonate                                       | (1:1) (TPS-P    | 'FHxS)  |                                 |              |
| Quinolinium, 1-(c                                     | carboxymethy    | rl)-4-[2-[4-[4-(2,2-diphenyletheny  | yl)phenyl]-                     | 1462414-59-0 |
| 1,2,3,3a,4,8b-he                                      | xahydrocyclo    | pent[b]indol-7-yl]ethenyl]-,  |                                 |              |
| 1,1,2,2,3,3,4,4,5                                     | ,5,6,6,6-trided | cafluoro-1-hexanesulfonate (1:1   | )(PFHxS-                        |              |
| $C_{44}H_{37}N_2O_2$                                  |                 |   |                                 |              |
| lodonium, dipher                                      | nyl-, 1,1,2,2,3 | ,3,4,4,5,5,6,6,6-tridecafluoro-1-   |                                 | 153443-35-7  |
| hexanesulfonate                                       | (1:1) (PFHxS    | $S-I(C_6H_5)_2)$  |                                 |              |
| Methanaminium,  | N,N,N-trimet    | thyl-, salt with 1,1,2,2,3,3,4,4,5,5  | 5,6,6,6-                        | 189274-31-5  |
|   |                 | c acid (1:1) (PFHxS-TMA)  |                                 |              |
| 1-Hexanesulfonio                                      | c acid, 1,1,2,2 | 2,3,3,4,4,5,5,6,6,6-tridecafluoro-  | -,                              | 202189-84-2  |
|   |                 | namine (1:1)(PFHxS-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>3</sub>                              |                                 |              |
|   |                 | ethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,  |                                 | 213740-81-9  |
| ,   | •               | ite (1:1)(PFHxS-I( $C_6H_4$ ) <sub>2</sub> ( $C_4H_9$ ) <sub>2</sub>                            |                                 |              |
|   |                 | 2,3,3,4,4,5,5,6,6,6-tridecafluoro-  |                                 | 341035-71-0  |
| salt (9CI)(PFHxS                                      |                 |   | , 0                             |              |
| ` , `   |                 | l)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6  | 3,6-                            | 341548-85-4  |
| ,   |                 | ite (1:1)(PFHxS-S( $C_7H_7$ ) <sub>2</sub> $C_6H_5$ )   | ,                               |              |
|   |                 | 2,3,3,4,4,5,5,6,6,6-tridecafluoro-  | - <u> </u>                      | 350836-93-0  |
| scandium(3+) sa                                       |                 |   | ,                               |              |
|   |                 | 2,3,3,4,4,5,5,6,6,6-tridecafluoro-  | - <u> </u>                      | 41184-65-0   |
| neodymium(3+)   |                 |   | ,                               |              |
|   |                 | 2,3,3,4,4,5,5,6,6,6-tridecafluoro-  |                                 | 41242-12-0   |
| yttrium(3+) salt (                                    |                 |   | ,                               |              |
|   |                 | ene)bis[diphenyl-, salt with  |                                 | 421555-73-9  |
| ,   |                 | cafluoro-1-hexanesulfonic acid (  | 1:2)(                           | 121000100    |
| PFHxS-S <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> ) |                 | (   | /(                              |              |
|   |                 | propyl)phenyl]-, salt with  |                                 | 421555-74-0  |
| - '   |                 | cafluoro-1-hexanesulfonic(PFHx  | κS-I                            |              |
| $(C_6H_4)_2(C_5H_{11})$                               | ,0,0,0,0        |   |                                 |              |
| Perflurohexane s                                      | sulphonyl fluo  | ride(PFHxS-F)   |                                 | 423-50-7     |
|   | <u> </u>        | lethyl)phenyl]-, 1,1,2,2,3,3,4,4,5  | 5 5 6 6 6-                      | 425670-70-8  |
| _   | •               | ite (1:1)(PFHxS-S(C <sub>6</sub> H <sub>4</sub> ) <sub>3</sub> (C <sub>4</sub> H <sub>9</sub> ) |                                 |              |
|   |                 | 2,3,3,4,4,5,5,6,6,6-tridecafluoro-  |                                 | 70136-72-0   |
| (PFHxS-Zn)  | - aoia, 1,1,2,2 | _,c,c, i, i,c,c,c,c,c aidcoaidcio-  | , 2.110 Juit                    | 10100120     |
| ` ,   | anesulnhonid    | acid, compound with 2,2'-iming  | ndiethanol                      | 70225-16-0   |
| (1:1)(PFHxS-NH  | •               | asia, compound with 2,2 -illing   |                                 | 10220 10-0   |
|   |                 | 2,3,3,4,4,5,5,6,6,6-tridecafluoro-  | - compd                         | 72033-41-1   |
| 1-1 levallesallolli                                   | o aciu, 1,1,2,2 | 2,0,0,7,7,0,0,0,0,0-triuecandoro-   | -, compu.                       | 1 2000-41-1  |



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|   | Date.  | Aug 00, 2020   |
|---|--|----------------|
| with N,N-diethyle                                 | ethanamine (1:1)(PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                                    |                |
| lodonium, bis[(1,                                 | 1-dimethylethyl)phenyl]-, salt with  | 866621-50-3    |
| 1,1,2,2,3,3,4,4,5,                                | .5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI)   | )              |
| $(PFHxS-I(C_6H_4)_2($                             | $(C_4H_9)_2)$  |                |
| Sulfonium, (4-me                                  | ethylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-  | 910606-39-2    |
| tridecafluoro-1-he                                | exanesulfonate (1:1)( PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>7</sub> H <sub>7</sub> ) |                |
| Sulfonium, [4-[(2-                                | -methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-,  | 911027-68-4    |
| 1,1,2,2,3,3,4,4,5,                                | 5,6,6,67tridecafluoro-1-hexanesulfonate (1:1) ( PFHx   | S-             |
| $S(C_6H_5)_28_{10}H_9O_2$                         | )  |                |
| 1-Hexanesulfonio                                  | c acid, 9,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium   | 92011-17-1     |
| salt (1:1) (PFHxS                                 | S-Cs) (PFHxS-Cs)   |                |
| Dibenzo[k,n][1,4,                                 | 7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-  | 928049-42-7    |
| dimethylethyl)phe                                 | enyl]-6,7,9,10,12,13-hexahydro-,   |                |
| 1,1,2,2,3,3,4,4,5,                                | 5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS   | -              |
| SC <sub>28</sub> H <sub>31</sub> O <sub>4</sub> ) |  |                |
| Perfluorohexylsu                                  | Ifonyl chloride (PFHxS-CI)   | 55591-23-6     |
| Sulfonium, [4-[(2-                                | -methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt  | 911027-69-5    |
| with 1,1,2,2,3,3,4                                | 1,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1),   |                |
| polymer with 2-et                                 | thyltricyclo[3.3.1.13,7]dec-2-yl 2-methyl-2-propenoate,  | ,              |
| 3-hydroxytricyclo                                 | [3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and   |                |
| tetrahydro-2-oxo-                                 | -3-furanyl 2-methyl-2-propenoate (PFHxS-Sulfonium,   |                |
| propenoate polyr                                  | ,  |                |
| Perfluorohexane                                   | sulfonate (anion)  | 108427-53-8    |
| Tetrabutylphosph                                  | nonium perfluorohexane sulfonate (PFHxS-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> ))                 | 2310194-12-6   |
| EtFHxSAA, its sa                                  | alts   |                |
| Glycine, N-ethyl-                                 | N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfony   | /l] 68957-32-4 |
| (EtFHxSAA)  |  |                |
| Potassium N-eth                                   | yl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA   | - 67584-53-6   |
| K)  |  |                |
| Sodium N-ethyl-N                                  | N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-  | - 68555-70-4   |
| Na)   |  |                |

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

### European Regulation POPs (EU) 2019/1021 Annex I-Halogenated compounds

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

| Test Item(s)                     | CAS No.                 | Limit          | Unit(s) | MDL | A3 |
|----------------------------------|-------------------------|----------------|---------|-----|----|
| Hexachlorobutadiene              | 87-68-3                 | Prohibite<br>d | mg/kg   | 5   | ND |
| Pentachlorobenzene               | 608-93-5                | Prohibite<br>d | mg/kg   | 5   | ND |
| Polychlorinated biphenyls (PCBs) | 1336-36-3<br>and others | Prohibite<br>d | mg/kg   | 0.2 | ND |



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| Test Item(s)                        | CAS No.                  | Limit          | Unit(s) | MDL | A3 |
|-------------------------------------|--------------------------|----------------|---------|-----|----|
| Polychlorinated naphthalenes (PCNs) | 70776-03-3<br>and others | Prohibite<br>d | mg/kg   | 5   | ND |
| Hexabromodiphenyl                   | 36355-01-8               | Prohibite<br>d | mg/kg   | 5   | ND |
| Tetrabromodiphenyl ether            | 40088-47-9<br>and others | -              | mg/kg   | 5   | ND |
| Pentabromodiphenyl ether            | 32534-81-9<br>and others | -              | mg/kg   | 5   | ND |
| Hexabromodiphenyl ether             | 36483-60-0<br>and others | -              | mg/kg   | 5   | ND |
| Heptabromodiphenyl ether            | 68928-80-3<br>and others | -              | mg/kg   | 5   | ND |
| Decabromodiphenyl ether (decaBDE)   | 1163-19-5                | -              | mg/kg   | 5   | ND |
| Sum of PBDEs*                       | -                        | 500            | mg/kg   | -   | ND |
| Conclusion                          |                          |                |         |     |    |

#### Notes:

- (1) Sum of PBDEs\* Means Sum of Tetrabromodiphenyl ether, Pentabromodiphenyl ether, Hexabromodiphenyl ether, Heptabromodiphenyl ether and Decabromodiphenyl ether.
- (2) Exemptions: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether, heptabromodiphenyl ether and decabromodiphenyl ether are ≤ 10 mg/kg for substances, and Sum of tetra-, penta-, hexa-, hepta- and decaBDE ≤500 mg/kg for mixtures or articles, this restriction is subject to review and assessment by the European by 16 July 2021.
- (3) Exemption: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether, heptabromodiphenyl ether and decabromodiphenyl ether in electrical and electronic equipment within the scope of Directive 2011/65/EU are exempted.
- (4) Without prejudice to Directive 96/59/EC, articles already in use at the time of the entry into force of this Regulation are allowed to be used. Member States shall identify and remove from use equipment (e.g. transformers, capacitors or other receptacles containing liquid stocks) containing more than 0,005 % PCBs and volumes greater than 0,05 dm³, as soon as possible but no later than 31 December 2025.

#### European Regulation POPs (EU) 2025/843 amending Regulation (EU) 2019/1021 Annex I -UV-328

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

| Test Item(s)   | CAS No.    | Limit | Unit(s) | MDL | A3   |
|--|------------|-------|---------|-----|------|
| 2-(2H-benzotriazol-2-yl)-4,6-di-tert-<br>pentylphenol (UV-328) | 25973-55-1 | 100   | mg/kg   | 1   | ND   |
| Conclusion   |            |       |         |     | Pass |

#### Notes:

(1) According to European Regulation POPs (EU) 2025/843 amending Regulation (EU) 2019/1021 Annex I, To reinforce the application and enforcement of the POP Recast Regulation, an unintentional trace contaminant (UTC) value has been set for UV-328 when the chemical is in substances, mixtures and articles. This UTC limit value will be strengthened over a four-year period.

| Substance | Scope      | Specific exemption on intermediate use<br>or other specifications | Effective date |
|-----------|------------|---|----------------|
| 111/ 220  | Substances | ≤ 100 mg/kg   | August 4, 2025 |
| UV-328    | Mixtures   | ≤ 10 mg/kg  | August 4, 2027 |



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Articles ≤ 1.0 mg/kg August 4, 2029

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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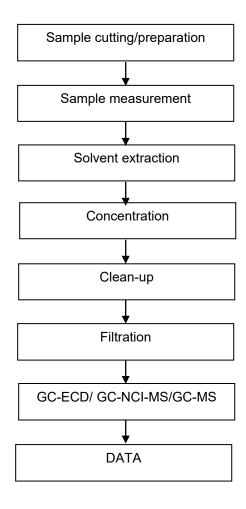
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# Test Report ATTACHMENTS

## **Chlorinated Paraffin Testing Flow Chart**





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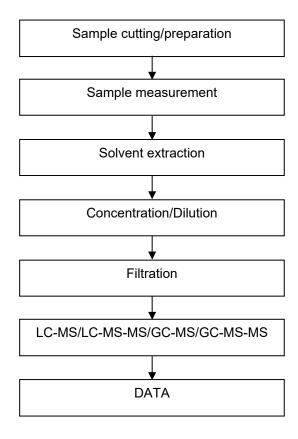
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# Test Report ATTACHMENTS

## PFASs/ PFOS/PFOA Testing Flow Chart





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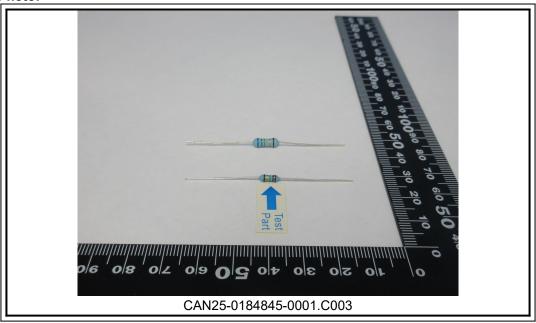
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Sample Photo:



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