

**Test Report** 

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智威科技股份有限公司 (ZOWIE TECHNOLOGY CORPORATION)
新北市新店區復願路43號3樓 (3/F NO 43 FLIXING RD XINDIAN DIST NEW TAIPELCIT

新北市新店區復興路43號3樓 (3/F., NO. 43, FUXING RD., XINDIAN DIST., NEW TAIPEI CITY, TAIWAN 23150)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By) : 智威科技股份有限公司 (ZOWIE TECHNOLOGY CORPORATION)

樣品名稱(Sample Name) : MULTILAYER POLYMER ALUMINUM ELECTROLYTIC CAPACITORS (SZ-CAP)

樣品型號(Style/Item No.) : 7343

收件日(Sample Receiving Date) : 21-Feb-2024

測試期間(Testing Period) : 21-Feb-2024 to 29-Feb-2024

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

測試需求(Test Requested)	總 結(Summary)
依據客戶要求,評估所選樣品中特定PFAS的風險。被評估的PFAS 總項目數量為235項,包括92項檢測項和143項列表項 (see remark)。評估結果的總結請參考右表。(As requested by the client, the risk of specific PFAS in the selected sample is evaluated. The total amounts of evaluated PFAS are 235 items, concluding 92 tested items and 143 listed items (see remark). The summary of evaluated results are displayed in right table.)	請參閱下一頁 (Please refer to following pages.)





PIN CODE: 92F3535



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#### 測試部位敘述 (Test Part Description)

No.1 : 整體混測 (MIXED ALL PARTS)

#### 測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
(rest items)	(Wethod)	(Offic)		No.1
全氟/多氟烷基物質 (PFAS)				
全氟丁酸及其鹽類 (PFBA and its salts) (Perfluorobutane acid and its salts	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜 (差分類 : 'With reference to CEN/TS 15068:	mg/kg	0.01	n.d.
(PFBA and its salts)) (CAS No.: 375-22-4	儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)			
and its salts)				
全氟丁磺酸及其鹽類 (PFBS and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
	儀分析。(With reference to CEN/TS 15968:			
(PFBS and its salts)) (CAS No.: 375-73-5 and its salts)	2010, analysis was performed by LC/MS/MS.)			
全氟丁磺醯胺 (Perfluorobutane sulfon	   参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.1	n.d.
amides) (CAS No.: 30334-69-1)	後分析。(With reference to CEN/TS 15968:	mg/kg	0.1	n.a.
arriacs) (CAS No.: 30354 03 1)	2010, analysis was performed by LC/MS/MS.)			
N-(2-羥乙基)-N-甲基全氟丁烷磺醯胺	參考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
(PFBS-NC3H8O) (1,1,2,2,3,3,4,4,4-	儀分析。(With reference to CEN/TS 15968:			
nonafluoro-N-(2-hydroxyethyl)-N-	2010, analysis was performed by LC/MS/MS.)			
methylbutane-1-sulphonamide (PFBS-				
NC3H8O)) (CAS No.: 34454-97-2)				
1H,1H,2H,2H-甲基丙烯酸全氟己酯 (4:2	參考CEN/TS 15968: 2010,以氣相層析儀/質譜	mg/kg	0.1	n.d.
FTMA) (1H,1H,2H,2H-Perfluorohexyl	儀分析。(With reference to CEN/TS 15968:			
methacrylate (4:2 FTMA)) (CAS No.:	2010, analysis was performed by GC/MS.)			
1799-84-4)				
全氟戊酸及其鹽類 (PFPA and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(Perfluoropentane acid and its salts	儀分析。(With reference to CEN/TS 15968:			
(PFPA and its salts)) (CAS No.: 2706-90-3 and its salts)	2010, analysis was performed by LC/MS/MS.)			



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
全氟已酸及其鹽類 (PFHxA and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(Perfluorohexane acid and its salts	儀分析。(With reference to CEN/TS 15968:			
(PFHxA and its salts)) (CAS No.: 307-24-	2010, analysis was performed by LC/MS/MS.)			
4 and its salts)				
1H,1H,2H,2H-全氟-1-辛醇 (6:2 FTOH)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluoro-1-octanol	儀分析。(With reference to CEN/TS 15968:			
(6:2FTOH)) (CAS No.: 647-42-7)	2010, analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟辛基丙烯酸酯 (6:2	參考CEN/TS 15968: 2010,以氣相層析儀/質譜	mg/kg	0.1	n.d.
FTA) (1H,1H,2H,2H-	儀分析。(With reference to CEN/TS 15968:			
Perfluorooctylacrylate (6:2FTA)) (CAS	2010, analysis was performed by GC/MS.)			
No.: 17527-29-6)				
1H,1H,2H,2H-全氟辛基甲基丙烯酸酯(6_2	參考CEN/TS 15968: 2010,以氣相層析儀/質譜	mg/kg	0.1	n.d.
FTMAC) (1H,1H,2H,2H-Perfluorooctyl	儀分析。(With reference to CEN/TS 15968:			
methacrylate (6:2 FTMAC)) (CAS No.:	2010, analysis was performed by GC/MS.)			
2144-53-8)				
1H,1H,2H,2H-全氟辛磺酸及其鹽類 (6:2	參考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
FTS and its salts) (1H,1H,2H,2H-	儀分析。(With reference to CEN/TS 15968:			
Perfluorooctanesulphonic acid and its	2010, analysis was performed by LC/MS/MS.)			
salts (6:2 FTS and its salts)) (CAS No.:				
27619-97-2 and its salts)				
1-碘-1H,1H,2H,2H-全氟辛烷 (6:2 FTI)	參考CEN/TS 15968: 2010,以氣相層析儀/質譜	mg/kg	0.1	n.d.
(1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-	儀分析。(With reference to CEN/TS 15968:			
8-iodooctane (6:2 FTI)) (CAS No.: 2043-	2010, analysis was performed by GC/MS.)			
57-4)				
全氟己基磺酸及其鹽類 (PFHxS and its	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
salts) (Perfluorohexane sulfonate and	儀分析。(With reference to CEN/TS 15968:			
its salts (PFHxS and its salts)) (CAS No.:	2010, analysis was performed by LC/MS/MS.)			
355-46-4 and its salts)				
N-甲基全氟-1-己烷磺醯胺 (N-MeFHxSA)	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(N-Methylperfluoro-1-	儀分析。(With reference to CEN/TS 15968:			
hexanesulfonamide (N-Me-FHxSA))	2010, analysis was performed by LC/MS/MS.)			
(CAS No.: 68259-15-4)				



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result) No.1
全氟己烷磺醯胺 (PFHxSA) (Perfluorohexane sulfonamide (PFHxSA)) (CAS No.: 41997-13-1)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
N-[3-(二甲基氨基)丙基]十三氟己烷磺醯胺 (N-AP-FHxSA) (N-[3- (dimethylamino)propyl]tridecafluorohe xanesulphonamide (N-AP-FHxSA)) (CAS No.: 50598-28-2)	參考CEN/TS 15968: 2010.以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
mino]ethyl acrylate (N-MeFHSEA)) (CAS No.: 67584-57-0)		mg/kg	0.5	n.d.
2-[甲基[(十三氟己基)磺醯基]氨基]乙基甲基丙烯酸酯 (2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethylester) (CAS No.: 67584-61-6)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.
2-[乙基[(十三氟己基)磺醯基]氨基]乙基甲基丙烯酸酯 (2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethylester) (CAS No.: 67906-70-1)	參考CEN/TS 15968: 2010.以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.
十三氟-N-(2-羥基乙基)-N-甲基己烷磺醯胺 (MeFHxSE) (1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE)) (CAS No.: 68555-75-9)	參考CEN/TS 15968: 2010.以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.



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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1
N-乙基-N-[(十三氟己基)磺醯基]甘氨酸 (Glycine, N-ethyl-N- [(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]-) (CAS No.: 68957-32-4)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
全氟庚酸及其鹽類 (PFHpA and its salts) (Perfluoroheptane acid and its salts (PFHpA and its salts)) (CAS No.: 375-85-9 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
7H-十二氟庚酸及其鹽類 (HPFHpA and its salts) (7H-Dodecanefluoroheptane acid and its salts (HPFHpA and its salts)) (CAS No.: 1546-95-8 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
全氟庚基磺酸及其鹽類 (PFHpS and its salts) (Perfluoroheptane sulfonate and its salts (PFHpS and its salts)) (CAS No.: 375-92-8 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (Perfluorooctane sulfonates and its salts (PFOS and its salts)) (CAS No.: 1763-23-1 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
N-乙基全氟正辛磺醯胺 (EtFOSA) (N-ethylperfluoro-1-octanesulfonamide (EtFOSA)) (CAS No.: 4151-50-2)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
N-甲基全氟正辛磺醯胺 (N-Me-FOSA) (N-Methyl-Perfluoroctanesulfonamide (N-Me-FOSA)) (CAS No.: 31506-32-8)	參考CEN/TS 15968: 2010. 以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
N-乙基全氟辛基磺醯胺乙醇 (N-Et-FOSE alcohol) (N-Ethyl- Perfluoroctanesulfonamidoethanol (N- Et-FOSE alcohol)) (CAS No.: 1691-99-2)	參考CEN/TS 15968: 2010.以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
N-甲基全氟辛基磺醯胺乙醇 (N-Me-FOSE	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
alcohol) (N-Methyl-	儀分析。(With reference to CEN/TS 15968:			
Perfluoroctanesulfonamidoethanol (N-	2010, analysis was performed by LC/MS/MS.)			
Me-FOSE alcohol)) (CAS No.: 24448-				
09-7)				
全氟辛基磺醯胺及其鹽類 (PFOSA and its	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
salts) (Perfluoroctanesulfonamide and	儀分析。(With reference to CEN/TS 15968:			
its salts (PFOSA and its salts)) (CAS No.:	2010, analysis was performed by LC/MS/MS.)			
754-91-6 and its salts)				
全氟辛酸及其鹽類 (PFOA and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(Perfluorooctanoic acid and its salts	儀分析。(With reference to CEN/TS 15968:			
	2010, analysis was performed by LC/MS/MS.)			
and its salts)				
全氟辛酸甲酯 (Me-PFOA) (Methyl	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
perfluorooctanoate (Me-PFOA)) (CAS	儀分析。(With reference to CEN/TS 15968:			
No.: 376-27-2)	2010, analysis was performed by GC/MS.)			
全氟辛酸乙酯 (Et-PFOA) (Ethyl	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
perfluorooctanoate (Et-PFOA)) (CAS	儀分析。(With reference to CEN/TS 15968:			
No.: 3108-24-5)	2010, analysis was performed by GC/MS.)			
全氟辛基碘烷 (PFOI) (Perfluoro-1-	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
iodooctane (PFOI)) (CAS No.: 507-63-1)	儀分析。(With reference to CEN/TS 15968:			
	2010, analysis was performed by GC/MS.)			
3-全氟庚基丙酸 (7:3 FTCA) (3-	參考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
Perfluoroheptyl propanoic acid (7:3	儀分析。(With reference to CEN/TS 15968:			
FTCA)) (CAS No.: 812-70-4)	2010, analysis was performed by LC/MS/MS.)			
1H,1H,2H,2H-全氟癸磺酸及其鹽類 (8:2	參考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
FTS and its salts) (1H,1H,2H,2H-	儀分析。(With reference to CEN/TS 15968:			
Perfluorodecanesulfonic acid and its	2010, analysis was performed by LC/MS/MS.)			
salts (8:2 FTS and its salts)) (CAS No.:				
39108-34-4 and its salts)				



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluoro-1-decanol (8:2	儀分析。(With reference to CEN/TS 15968:			
FTOH)) (CAS No.: 678-39-7)	2010, analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
FTA) (1H,1H,2H,2H-Perfluorodecyl	儀分析。(With reference to CEN/TS 15968:			
acrylate (8:2 FTA)) (CAS No.: 27905-45-	2010, analysis was performed by GC/MS.)			
9)				
1H,1H,2H,2H-全氟癸基甲基丙烯酸酯 (8:2	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
FTMA) (1H,1H,2H,2H-Perfluorodecyl	儀分析。(With reference to CEN/TS 15968:			
methacrylate (8:2 FTMA)) (CAS No.:	2010, analysis was performed by GC/MS.)			
1996-88-9)				
2H,2H-全氟癸酸及其鹽類 (H2PFDA and	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
its salts) (2H,2H-Perfluorodecane acid	儀分析。(With reference to CEN/TS 15968:			
and its salts (H2PFDA and its salts))	2010, analysis was performed by LC/MS/MS.)			
(CAS No.: 27854-31-5 and its salts)				
1H,1H,2H,2H-全氟癸基碘 (8_2 FTI)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluorodecyl iodide	儀分析。(With reference to CEN/TS 15968:			
(8_2 FTI)) (CAS No.: 2043-53-0)	2010, analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟十七烷三甲基氧矽烷	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(8:2 FTSi(OC2H5)3) (1H,1H,2H,2H-	儀分析。(With reference to CEN/TS 15968:			
Perfluorodecyltriethoxysilane (8:2	2010, analysis was performed by GC/MS.)			
FTSi(OC2H5)3)) (CAS No.: 101947-16-4)				
2H,2H,3H,3H-全氟癸酸及其鹽類	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(4HPFUnA and its salts) (2H,2H,3H,3H-	儀分析。(With reference to CEN/TS 15968:			
Perfluoroundecanoic Acid and its salts	2010, analysis was performed by LC/MS/MS.)			
(4HPFUnA and its salts)) (CAS No.:				
34598-33-9 and its salts)				
1H,1H,2H-全氟-1-癸烯 (PFDE)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(1H,1H,2H-Heptadecafluoro-1-decene	儀分析。(With reference to CEN/TS 15968:			
(PFDE)) (CAS No.: 21652-58-4)	2010, analysis was performed by GC/MS.)			



## **Test Report**

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智威科技股份有限公司 (ZOWIE TECHNOLOGY CORPORATION) 新北市新店區復興路43號3樓 (3/F., NO. 43, FUXING RD., XINDIAN DIST., NEW TAIPEI CITY, TAIWAN 23150)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
雙(1H,1H,2H,2H-全氟癸基)磷酸酯及其鹽類	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(8_2diPAP and its salts) (Bis(1H,1H,2H,2H-	儀分析。(With reference to CEN/TS 15968:			
Perfluorodecyl)phosphate and its salts	2010, analysis was performed by LC/MS/MS.)			
(8_2diPAP and its salts)) (CAS No.: 678-41-1 and its salts)				
,	<b> </b>		0.01	
全氟壬酸及其鹽類 (PFNA and its salts)	参考CEN/TS 15968: 2010 , 以液相層析串聯質譜	mg/kg	0.01	n.d.
1°	儀分析。(With reference to CEN/TS 15968:			
1 1	2010, analysis was performed by LC/MS/MS.)			
and its salts)	<b> </b>	/1	0.01	
全氟-3,7-二甲基辛酸 (PF-3,7-DMOA)	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(Perfluoro-3,7-dimethyloctanoic Acid	儀分析。(With reference to CEN/TS 15968:			
(PF-3,7-DMOA)) (CAS No.: 172155-07-	2010, analysis was performed by LC/MS/MS.)			
6) 今年於東京 甘藤特 (DEDA and its solts)	<b> </b>		0.01	10 al
全氟癸酸及其鹽類 (PFDA and its salts)	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(Perfluorodecane acid and its salts	儀分析。(With reference to CEN/TS 15968:			
	2010, analysis was performed by LC/MS/MS.)			
and its salts)	# # CFN (TC 1 FOCO 2010   N # 11 PH C th TWEE **	4	0.01	
全氟十一烷酸及其鹽類 (PFUnDA and its	参考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
salts) (Perfluoroundecanoic acid and	儀分析。(With reference to CEN/TS 15968:			
its salts (PFUnDA and its salts)) (CAS	2010, analysis was performed by LC/MS/MS.)			
No.: 2058-94-8 and its salts)	# # CFN (TC 1 FOCO 2010   N # 11 PH C 1 TWEE **	//	0.01	
全氟十二烷酸及其鹽類 (PFDoDA and its	參考CEN/TS 15968: 2010 , 以液相層析串聯質譜	mg/kg	0.01	n.d.
7 3	儀分析。(With reference to CEN/TS 15968:			
salts (PFDoDA and its salts)) (CAS No.:	2010, analysis was performed by LC/MS/MS.)			
307-55-1 and its salts) 全氟癸烷磺酸及其鹽類 (PFDS and its	   参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	ma/lea	0.01	n.d.
主無失炕嶼酸及兵鹽類 (PFDS and its salts) (Perfluorodecane sulfonate and	参与CEN/TS 15908. 2010,以及伯僧州中柳貞間   儀分析。(With reference to CEN/TS 15968:	mg/kg	0.01	n.a.
its salts (PFDS and its salts)) (CAS No.:	2010, analysis was performed by LC/MS/MS.)			
	2010, analysis was performed by EC/MS/MS.)			
335-77-3 and its salts)	<b>A 老CEN ITC 15069: 2010</b>	ma /les	0.01	n d
全氟十三烷酸及其鹽類 (PFTrDA and its	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜 (差分表 ・ / With reference to CEN/TS 15068:	mg/kg	0.01	n.d.
salts) (Pentacosafluorotridecanoic acid	儀分析。(With reference to CEN/TS 15968:			
and its salts (PFTrDA and its salts)) (CAS	2010, analysis was performed by LC/MS/MS.)			
No.: 72629-94-8 and its salts)				

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## **Test Report**

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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
全氟十四烷酸及其鹽類 (PFTDA and its	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
salts) (Perfluorotetradecanoic acid and	儀分析。(With reference to CEN/TS 15968:			
its salts (PFTDA and its salts)) (CAS No.:	2010, analysis was performed by LC/MS/MS.)			
376-06-7 and its salts)				
1H,1H,2H,2H-全氟-1-十二醇 (10:2	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
FTOH) (1H,1H,2H,2H-Perfluoro-1-	儀分析。(With reference to CEN/TS 15968:			
dodecanol (10:2FTOH)) (CAS No.: 865-	2010, analysis was performed by GC/MS.)			
86-1)				
1H,1H,2H,2H-全氟十二烷基丙烯酸酯	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(10:2 FTA) (1H,1H,2H,2H-	儀分析。(With reference to CEN/TS 15968:			
Perfluorododecylacrylate (10:2FTA))	2010, analysis was performed by GC/MS.)			
(CAS No.: 17741-60-5)				
1H,1H,2H,2H-全氟十二烷基甲基丙烯酸酯	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(10:2 FTMA) (1H,1H,2H,2H-	儀分析。(With reference to CEN/TS 15968:			
Perfluorododecyl methacrylate (10:2	2010, analysis was performed by GC/MS.)			
FTMA)) (CAS No.: 2144-54-9)				
1H,1H,2H,2H-全氟十四烷基醇 (12:2	參考CEN/TS 15968: 2010,以氣相層析儀/質譜	mg/kg	0.1	n.d.
FTOH) (1H,1H,2H,2H-	儀分析。(With reference to CEN/TS 15968:			
perfluorotetradecan-1-ol (12:2 FTOH))	2010, analysis was performed by GC/MS.)			
(CAS No.: 39239-77-5)				
1H,1H,2H,2H-全氟十二烷磺酸 (10:2 FTS)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(1H,1H,2H,2H-Perfluorododecane	儀分析。(With reference to CEN/TS 15968:			
sulfonic acid (10:2 FTS)) (CAS No.:	2010, analysis was performed by LC/MS/MS.)			
120226-60-0)	# # CFN (TC 1 FOCO 2010 N = 17 P F / F / F / F	- 4	0.1	
1H,1H,2H,2H-全氟十二烷基碘 (10:2 FTI)	参考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluorododecyl iodide	儀分析。(With reference to CEN/TS 15968:			
(10:2 FTI)) (CAS No.: 2043-54-1)	2010, analysis was performed by GC/MS.)			
1H,1H,2H,2H-全氟十四烷基碘 (12:2 FTI)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(1H,1H,2H,2H-Perfluorotetradecyl	儀分析。(With reference to CEN/TS 15968:			
iodide (12:2 FTI)) (CAS No.: 30046-31-2)	2010, analysis was performed by GC/MS.)			



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智威科技股份有限公司 (ZOWIE TECHNOLOGY CORPORATION) 新北市新店區復興路43號3樓 (3/F., NO. 43, FUXING RD., XINDIAN DIST., NEW TAIPEI CITY, TAIWAN 23150)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
全氟壬烷磺酸及其鹽類 (PFNS and its	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
salts) (Perfluorononane sulfonic acid	儀分析。(With reference to CEN/TS 15968:			
and its salts (PFNS and its salts)) (CAS	2010, analysis was performed by LC/MS/MS.)			
No.: 68259-12-1 and its salts)				
全氟十一烷磺酸及其鹽類 (PFUnDS and	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
its salts) (Perfluoroundecane sulfonic	儀分析。(With reference to CEN/TS 15968:			
acid and its salts (PFUnDS and its salts))	2010, analysis was performed by LC/MS/MS.)			
(CAS No.: 749786-16-1, 441296-91-9				
and its salts)				
全氟十二烷磺酸及其鹽類 (PFDoDS and	参考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
its salts) (Perfluorododecane sulfonic	儀分析。(With reference to CEN/TS 15968:			
1	2010, analysis was performed by LC/MS/MS.)			
(CAS No.: 79780-39-5 and its salts)				
全氟十三烷磺酸及其鹽類 (PFTrDS and its	参考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
salts) (Perfluorotridecane sulfonic acid	儀分析。(With reference to CEN/TS 15968:			
and its salts (PFTrDS and its salts)) (CAS	2010, analysis was performed by LC/MS/MS.)			
No.: 791563-89-8 and its salts)				
雙[2-(全氟癸基)乙基]磷酸鹽 (10:2 diPAP)	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.1	n.d.
(10:2 Fluortelomerphosphatediester	儀分析。(With reference to CEN/TS 15968:			
(10:2 diPAP)) (CAS No.: 1895-26-7)	2010, analysis was performed by LC/MS/MS.)			
全氟碘代十二烷 (PFDoDI)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(Perfluorododecyl iodide (PFDoDI))	儀分析。(With reference to CEN/TS 15968:			
(CAS No.: 307-60-8)	2010, analysis was performed by GC/MS.)			
1-碘全氟癸烷 (PFDI) (Perfluorodecyl	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
iodide (PFDI)) (CAS No.: 423-62-1)	儀分析。(With reference to CEN/TS 15968:			
	2010, analysis was performed by GC/MS.)			
全氟十五烷酸及其鹽類 (PFPeDA and its	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
salts, C15) (Perfluoropentadecanoic	儀分析。(With reference to CEN/TS 15968:	-		
acid and its salts (PFPeDA and its salts,	2010, analysis was performed by LC/MS/MS.)			
C15)) (CAS No.: 141074-63-7 and its				
salts)				



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				結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
全氟十六烷酸及其鹽類 (PFHxDA and its 参	考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
salts, C16) (Perfluorohexadecanoic acid 儀:	竞分析。(With reference to CEN/TS 15968:			
and its salts (PFHxDA and its salts, C16)) 20	010, analysis was performed by LC/MS/MS.)			
(CAS No.: 67905-19-5 and its salts)				
全氟十八烷酸及其鹽類 (PFODA and its 参	考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
1 ' ' '	憶分析。(With reference to CEN/TS 15968:			
1	010, analysis was performed by LC/MS/MS.)			
(CAS No.: 16517-11-6 and its salts)				
` ' '	考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
3-methoxypropanoic acid (PFMPA)) 儀:	憶分析。(With reference to CEN/TS 15968:			
(CAS No.: 377-73-1) 20	010, analysis was performed by LC/MS/MS.)			
全氟 4-甲氧基丁酸 (PFMBA) (Perfluoro- 參	考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
4-methoxybutanoic acid (PFMBA)) (CAS 儀:	6分析。(With reference to CEN/TS 15968:			
No.: 863090-89-5) 20	010, analysis was performed by LC/MS/MS.)			
全氟-3,6-二氧雜庚酸 (NFDHA) 參	考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
(Nonafluoro-3,6-dioxaheptanoic acid 儀	竞分析。(With reference to CEN/TS 15968:	J. J		
(NFDHA)) (CAS No.: 151772-58-6) 20	010, analysis was performed by LC/MS/MS.)			
4,8-二氧雜-3H-全氟壬酸 (ADONA) (4,8- 参	考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
Dioxa-3H-perfluorononanoic acid 儀:	竞分析。(With reference to CEN/TS 15968:	J. J		
· ·	010, analysis was performed by LC/MS/MS.)			
	考CEN/TS 15968: 2010,以氣相層析儀/質譜	mg/kg	0.1	n.d.
	養分析。(With reference to CEN/TS 15968:	3, 3		
	010, analysis was performed by GC/MS.)			
	*考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
1	意分析。(With reference to CEN/TS 15968:	mg/kg	0.01	11.0.
	010, analysis was performed by LC/MS/MS.)			
its salts (HFPO-DA and its salts)) (CAS No.:	20, analysis mas perfermed by 20, me, me,			
13252-13-6 and its salts)				
1H,1H,2H,2H-全氟己磺酸及其鹽類 (4:2 參	考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
•	意分析。(With reference to CEN/TS 15968:	5 5		
/ ` ' ' '	010, analysis was performed by LC/MS/MS.)			
salts (4:2 FTS and its salts)) (CAS No.:				
757124-72-4 and its salts)				



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智威科技股份有限公司 (ZOWIE TECHNOLOGY CORPORATION) 新北市新店區復興路43號3樓 (3/F., NO. 43, FUXING RD., XINDIAN DIST., NEW TAIPEI CITY, TAIWAN 23150)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
全氟辛烷磺酰胺乙酸 (FOSAA)	参考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
(Perfluorooctane sulfonamidoacetic	儀分析。(With reference to CEN/TS 15968:			
acid (FOSAA)) (CAS No.: 2806-24-8)	2010, analysis was performed by LC/MS/MS.)			
N-甲基全氟辛烷磺酰胺乙酸(N-	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
MeFOSAA) (N-methylperfluorooctane	儀分析。(With reference to CEN/TS 15968:			
sulfonamidoacetic acid (N-MeFOSAA))	2010, analysis was performed by LC/MS/MS.)			
(CAS No.: 2355-31-9)				
,	參考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
(N-ethylperfluorooctane	儀分析。(With reference to CEN/TS 15968:			
sulfonamidoacetic acid (N-EtFOSAA))	2010, analysis was performed by LC/MS/MS.)			
(CAS No.: 2991-50-6)				
` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(Perfluoropentane sulfonic acid and its	儀分析。(With reference to CEN/TS 15968:			
salts (PFPeS and its salts)) (CAS No.:	2010, analysis was performed by LC/MS/MS.)			
2706-91-4 and its salts)	4 + C5N TC 15000 0010 NP+ ID FILE IT WISSEY	4	0.01	<u> </u>
3-全氟丙基丙酸 (3:3 FTCA) (3-	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
Perfluoropropyl propanoic acid (3:3	儀分析。(With reference to CEN/TS 15968:			
FTCA)) (CAS No.: 356-02-5)	2010, analysis was performed by LC/MS/MS.)			
2-全氟己基乙酸 (6:2 FTCA) (2-	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
Perfluorohexyl ethanoic acid (6:2	儀分析。(With reference to CEN/TS 15968:			
FTCA)) (CAS No.: 53826-12-3)	2010, analysis was performed by LC/MS/MS.)			
3-全氟戊基丙酸 (5:3 FTCA) (3-	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
Perfluoropentyl propanoic acid (5:3	儀分析。(With reference to CEN/TS 15968:			
FTCA)) (CAS No.: 914637-49-3)	2010, analysis was performed by LC/MS/MS.)			
全氟(2-乙氧基乙烷)磺酸 (PFEESA)	参考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
(Perfluoro(2-ethoxyethane)sulfonic	儀分析。(With reference to CEN/TS 15968:			
acid (PFEESA)) (CAS No.: 113507-82-7)	2010, analysis was performed by LC/MS/MS.)			
9-氯十六氟-3-氧雜壬烷-1-磺酸 (9CI-	參考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
PF3ONS) (9-Chlorohexadecafluoro-3-	儀分析。(With reference to CEN/TS 15968:	5 5		
oxanonane-1-sulfonic acid (9Cl-	2010, analysis was performed by LC/MS/MS.)			
PF3ONS)) (CAS No.: 756426-58-1)				



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智威科技股份有限公司 (ZOWIE TECHNOLOGY CORPORATION) 新北市新店區復興路43號3樓 (3/F., NO. 43, FUXING RD., XINDIAN DIST., NEW TAIPEI CITY, TAIWAN 23150)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
11-氯二十氟-3-氧雜十一烷-1-磺酸 (11CI-	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
PF3OUdS) (11-Chloroeicosafluoro-3-	儀分析。(With reference to CEN/TS 15968:			
oxaundecane-1-sulfonic acid (11Cl-	2010, analysis was performed by LC/MS/MS.)			
PF3OUdS)) (CAS No.: 763051-92-9)				
2-(N-乙基全氟辛烷磺醯胺基)丙烯酸乙酯	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(EtFOSAC) (2-(N-	儀分析。(With reference to CEN/TS 15968:			
ethylperfluorooctanesulfamido)ethyl	2010, analysis was performed by GC/MS.)			
acrylate (EtFOSAC)) (CAS No.: 423-82-5)				
全氟辛基三乙氧基矽烷 (POTS)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	0.1	n.d.
(Perfluorooctyl triethoxysilane (POTS))	儀分析。(With reference to CEN/TS 15968:			
(CAS No.: 51851-37-7)	2010, analysis was performed by GC/MS.)			
11H-全氟十一烷酸及其鹽類 (11H-	参考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
PFUnDA and its salts) (11H-	儀分析。(With reference to CEN/TS 15968:			
Perfluoroundecanoic acid and its salts	2010, analysis was performed by LC/MS/MS.)			
(11H-PFUnDA and its salts)) (CAS No.:				
1765-48-6 and its salts)				
全氟己基碘 (PFHxl) (Perfluorohexyl	參考CEN/TS 15968: 2010,以氣相層析儀/質譜	mg/kg	1	n.d.
iodide (PFHxI)) (CAS No.: 355-43-1)	儀分析。(With reference to CEN/TS 15968:			
	2010, analysis was performed by GC/MS.)			
全氟己基乙烯 (PFHxE) (Perfluorohexyl	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜	mg/kg	1	n.d.
ethylene (PFHxE)) (CAS No.: 25291-17-	儀分析。(With reference to CEN/TS 15968:			
2)	2010, analysis was performed by GC/MS.)			

#### 備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個別單一材質的含量。
  The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.



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#### Remark:

現有PFAS定量技術是分析PFAS物質的特定結構,但同碳數族群之PFAS酸及鹽類物質,其可被辨識的特定結構相同,因此無法區別所分析的特定結構是來自酸或者鹽類,故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含在測試結果中,相關資訊請參見下表:(下表列舉PFAS物質僅為範例,並不包含所有同碳數族群之PFAS鹽類。)

(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	全氟丁酸 (Perfluorobutane acid) (PFBA)	375-22-4
	全氟丁酸銨 (PFBA-NH <sub>4</sub> )	10495-86-0
	Ammonium perfluorobutanoate (PFBA-NH <sub>4</sub> )	
	全氟丁酸鈉 (PFBA-Na)	2218-54-4
	Sodium perfluorobutanoate (PFBA-Na)	
PFBA, 及其鹽 (PFBA, its salts)	全氟丁酸鉀 (PFBA-K)	2966-54-3
(PFDA, Its Saits)	Potassium heptafluorobutanoate (PFBA-K)	
	全氟丁酸銀 (PFBA-Ag)	3794-64-7
	Silver perfluorobutanoate (PFBA-Ag)	
	全氟丁酸鋰 (PFBA-Li)	4146-76-3
	Lithium perfluorobutanoate (PFBA-Li)	
	全氟丁磺酸 (Perfluorobutane sulfonate) (PFBS)	375-73-5
	全氟丁基磺酸鈉 (PFBS-Na)	60453-92-1
	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, sodium	
	salt (1:1) (PFBS-Na)	
	全氟丁基磺酸鋰 (PFBS-Li)	131651-65-5
PFBS, 及其鹽&衍生物	Lithium perfluorobutanesulfonate (PFBS-Li)	
(PFBS, its salts & derivatives)	全氟丁基磺酸鎂 (PFBS-Mq)	507453-86-3
	Magnesium perfluorobutanesulfonate (PFBS-Mg)	
	全氟丁基磺酸鉀 (PFBS-K)	29420-49-3
	Perfluorobutane Sulfonate K-salt (PFBS-K)	
	全氟丁基磺酸氟 (PFBS-F)	375-72-4
	Perfluorobutane sulfonyl fluoride (PFBS-F)	



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	全氟丁基磺酸四乙基銨 (PFBS-N(CH <sub>3</sub> CH <sub>2</sub> ) <sub>4</sub> ) Tetraethylammonium perfluorobutanesulfonate (PFBS-N(CH <sub>3</sub> CH <sub>2</sub> ) <sub>4</sub> )	25628-08-4
	全氟丁基磺酸三苯基鋶 (TPS-PFBS) Triphenylsulfanium perfluorobutane sulfonate (TPS-PFBS)	144317-44-2
	全氟丁基磺酸二甲基(苯基)硫 Dimethyl(phenyl)sulfanium perfluorobutane sulfonate	220133-51-7
	全氟丁基磺酸四丁基磷 Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate	220689-12-3
	全氟丁基磺酸嗎啉 Morpholinium perfluorobutanesulfonate	503155-89-3
PFBS, 及其鹽&衍生物	全氟丁基磺酸銨 (PFBS-NH <sub>4</sub> ) Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH <sub>4</sub> )	68259-10-9
(PFBS, its salts & derivatives)	全氟丁基磺酸水合物 Nonafluorobutanesulfonic acidHydrate	59933-66-3
	全氟丁基磺酸氯 (PFBS-Cl) Nonafluoro-1-butanesulfonyl chloride (PFBS-Cl)	2991-84-6
	全氟-1-丁磺酸雙(4-叔丁基苯基)碘鎓 (PFBS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> ) Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )	194999-85-4
	1,1,2,2,3,4,4,4-一氟丁烷-1-磺酸與2,2'-亞氨基三乙醇的化合物 (1:1) (PFBS-NH(C <sub>2</sub> H <sub>5</sub> O) <sub>2</sub> ) 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFBS-NH(C <sub>2</sub> H <sub>5</sub> O) <sub>2</sub> )	70225-18-2
	1-(4-丁氧基-1-萘基)四氫噻吩九氟丁烷-1-磺酸鹽 (PFBS-SC <sub>18</sub> H <sub>23</sub> O) 1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-SC <sub>18</sub> H <sub>23</sub> O)	209482-18-8
	全氟戊酸 (Perfluoropentane acid) (PFPA)	2706-90-3
PFPA, 及其鹽 (PFPA, its salts)	全氟戊酸鈉 (PFPA-Na) Sodium perfluoropentanoate (PFPA-Na)	2706-89-0
(FFFA, its saits)	全氟戊酸鉀 (PFPA-K) Potasium perfluoropentanoate (PFPA-K)	336-23-2



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	全氟戊酸銨 (PFPA-NH <sub>4</sub> )	68259-11-0
	Ammonium perfluoropentanoate (PFPA-NH <sub>4</sub> )	
PFPA, 及其鹽	全氟戊酸鋰 (PFPA-Li)	198482-22-3
(PFPA, its salts)	Lithium perfluoropentanoate (PFPA-Li)	
	全氟戊酸銀 (PFPA-Ag)	2795-30-4
	Silver perfluoropentanoate (PFPA-Ag)	
	全氟已酸 (Perfluorohexane acid) (PFHxA)	307-24-4
	全氟已酸銨 (PFHxA-NH <sub>4</sub> )	21615-47-4
	Ammonium perfluorohexanoate (PFHxA-NH <sub>4</sub> )	
	全氟已酸鈉 (PFHxA-Na)	2923-26-4
	Sodium perfluorohexanoate (PFHxA-Na)	
	全氟已酸鉀 (PFHxA-K)	3109-94-2
PFHxA, 及其鹽&衍生物	Potassium perfluorohexanoate (PFHxA-K)	
(PFHxA, its salts & derivatives)	全氟己酸氟 (PFHxA-F)	355-38-4
	Perfluorohexanoyl fluoride (PFHxA-F)	
	全氟己酸銀 (PFHxA-Ag)	336-02-7
	Silver perfluorohexanoate (PFHxA-Ag)	
	全氟己酸鋰 (PFHxA-Li)	90430-61-8
	Lithium perfluorohexanoate (PFHxA-Li)	
	1H,1H,2H,2H-全氟辛磺酸 (1H,1H,2H,2H-	27619-97-2
	Perfluorooctanesulphonic acid) (6:2 FTS)	
	1H, 1H, 2H, 2H-全氟辛烷磺酸鈉 (6:2 FTS-Na)	27619-94-9
	Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	
	1H, 1H, 2H, 2H-全氟辛烷磺酸鉀 (6:2 FTS-K)	59587-38-1
6:2 FTS, 及其鹽	Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	
(6:2 FTS, its salts)	1H, 1H, 2H, 2H-全氟辛烷磺酸銨 (6:2 FTS-NH <sub>4</sub> )	59587-39-2
	Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-	
	NH <sub>4</sub> )	
	1H, 1H, 2H, 2H-全氟辛烷磺酸銨鋇 (6:2 FTS-Ba)	1807944-82-6
	1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-,	
	barium salt (2:1) (6:2 FTS-Ba)	



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	全氟己基磺酸 (Perfluorohexane sulfonate) (PFHxS)	355-46-4
	全氟己基磺酸鈉 (PFHxS-Na)	82382-12-5
	Perfluorohexanesulfonate Na-salt (PFHxS-Na)	
	全氟己基磺酸鉀 (PFHxS-K)	3871-99-6
	Perfluorohexanesulfonate K-salt (PFHxS-K)	
	全氟己基磺酸銨 (PFHxS-NH <sub>4</sub> )	68259-08-5
	Ammonium perfluorohexanesulfonate (PFHxS-NH <sub>4</sub> )	
	全氟己基磺酸鋰 (PFHxS-Li)	55120-77-9
	Perfluorohexanesulfonate Li-salt (PFHxS-Li)	
	全氟己基磺酸鋅 (PFHxS-Zn)	70136-72-0
	Perfluorohexanesulfonate Zn-salt (PFHxS-Zn)	
	全氟己基磺醯氟 (PFHxS-F)	423-50-7
	Perfluorohexanesulfonate sulfonyl fluoride (PFHxS-F)	
	三苯基(苯甲基)磷-, 1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟-1-己烷磺酸鹽	1000597-52-3
	(1:1)	
PFHxS, 及其鹽&衍生物	Phosphonium, triphenyl(phenylmethyl)-,	
(PFHxS, its salts & derivatives)	1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	
(FFF) (FFF)	N,N,N-三丁基-1-丁銨與十三氟-1-己烷磺酸的鹽	108427-54-9
	N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-	
	sulfonate	
	N,N,N-三乙基乙銨與十三氟-1-己烷磺酸的鹽 (1:1)	108427-55-0
	N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate	
	(1:1)	
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸與吡咯烷的化合物 (1:1)	1187817-57-7
	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,	
	compd. With pyrrolidine (1:1)	
	N-[4-[[4-(二乙基氨基)苯基][4-(乙基氨基)-1-萘基]亞甲基]-2,5-環己	1310480-24-0
	二-1-基]-N-乙基乙銨,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸	
	鹽 (1:1)	
	Ethanaminium, N-[4-[[4-(diethylamino)phenyl]][4-(ethylamino)-	
	1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-	
	ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate	
	(1:1)	



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	N-[4-[[4-(二甲基氨基)苯基][4-(乙基氨基)-1-萘基]亞甲基]-2,5-環己二-1-基]-N-甲基甲銨,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1)  Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1310480-27-3
	N-[4-[[4-(二甲基氨基)苯基][4-(苯基氨基)-1-萘基]亞甲基]-2,5-環己二-1-基]-N-甲基甲銨,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1310480-28-4
PFHxS, 及其鹽&衍生物 (PFHxS, its salts & derivatives)	β-環糊精, 與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸離子(1-)的 化合物 (1:1) Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-1-hexanesulfonic acid ion(1-) (1:1)	1329995-45-0
	γ-環糊精, 與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸離子(1-)的 化合物 (1:1) Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-1-hexanesulfonic acid ion(1-) (1:1)	1329995-69-8
	三苯基锍,1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- hexanesulfonate (1:1)	144116-10-9
	喹啉鎓,1-(羧甲基)-4-[2-[4-[4-(2,2-二苯基乙烯基)苯基]-1,2,3,3a,4,8b-六氫環戊[b]吲哚-7-基]乙烯基]-,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1462414-59-0



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	二苯基碘鎓,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) lodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	153443-35-7
	N,N,N-三甲基甲銨與1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟-1-己烷磺酸 的鹽 (1:1) Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)	189274-31-5
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸與2-甲基-2-丙胺的化合物 (1:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)	202189-84-2
PFHxS, 及其鹽&衍生物	雙[4-(1,1-二甲基乙基)苯基]碘鎓, 1,2,2,3,3,4,4,5,5,6,6,6 -十三氟-1- 己烷磺酸鹽 (1:1) lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	213740-81-9
(PFHxS, its salts & derivatives)	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鎵鹽 (9CI) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)	341035-71-0
	雙(4-甲基苯基)苯基硫磺酸1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷 磺酸鹽 (1:1) Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-1-hexanesulfonate (1:1)	341548-85-4
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鈧(3+)鹽 (3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc)	350836-93-0
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸釹(3+)鹽 (3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd)	41184-65-0
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸釔(3+)鹽 (3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y)	41242-12-0



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	(硫代二-4,1-亞苯基)雙[二苯基硫鹽與1,1,2,2,3,3,4,4,5,5,6,6,6-十三 氟-1-己烷磺酸 (1:2) Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)	421555-73-9
	雙[4-(1,1-二甲基丙基)苯基]碘鎓鹽與1,1,2,2,3,3,4,4,5,5,6,6,6-十三 氟-1-己烷磺酸 lodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid	421555-74-0
	三[4-(1,1-二甲基乙基)苯基]锍-,1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟- 1-己烷磺酸鹽 (1:1) Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	425670-70-8
	十三氟己烷磺酸與二乙醇胺的化合物 Tridecafluorohexanesulphonic acid, compound with 2,2'- iminodiethanol (1:1)	70225-16-0
PFHxS, 及其鹽&衍生物 (PFHxS, its salts & derivatives)	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸與N·N-二乙基乙胺的 化合物 (1:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)	72033-41-1
	雙[(1,1-二甲基乙基)苯基]碘鎓鹽-與1,1,2,2,3,3,4,4,5,5,6,6,6-十三 氟-1-己烷磺酸 (1:1) (9CI) lodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI)	866621-50-3
	(4-甲基苯基)二苯基锍-,1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	910606-39-2
	[4-[(2-甲基-1-氧-2-丙烯-1-基)氧基]苯基]二苯基锍- ,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1- yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- 1-hexanesulfonate (1:1)	911027-68-4



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFHxS, 及其鹽&衍生物	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸銫鹽 (1:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-CsH)	92011-17-1
	二苯並[k,n][1,4,7,10,13]四氧噻吩基環戊二烯鎓,19-[4-(1,1-二甲基乙基)苯基]-6,7,9,10,12,13-六氫-,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-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)	928049-42-7
(PFHxS, its salts & derivatives)	全氟己基磺酸氯 (PFHxS-Cl) Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6
	PFHxS-磺酸酯聚合物 Sulfonium, [4-[(2-methyl-1-oxo-2- propenyl)oxy]phenyl]diphenyl-, salt with1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2- ethyltricyclo[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	911027-69-5
	全氟庚酸 (Perfluoroheptane acid) (PFHpA)	375-85-9
	全氟庚酸鈉 (PFHpA-Na) Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5
	全氟庚酸鉀 (PFHpA-K) Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5
PFHpA, 及其鹽 (PFHpA, its salts)	全氟庚酸銨 (PFHpA-NH <sub>4</sub> ) Ammonium perfluoroheptanoate (PFHpA-NH <sub>4</sub> )	6130-43-4
	全氟庚酸銫 (PFHpA-Cs) Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6
	全氟庚酸銀 (PFHpA-Ag) Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5
	全氟庚酸鋰 (PFHpA-Li) Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
(Group Hume)	7H-十二氟庚酸 (7H-Dodecanefluoroheptane acid) (HPFHpA)	1546-95-8
HPFHpA, 及其鹽	7H-十二氟庚酸鈉 (HPFHpA-Na) Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7
(HPFHpA, its salts)	7H-十二氟庚酸銨 (HPFHpA-NH <sub>4</sub> ) Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH <sub>4</sub> )	376-34-1
	全氟庚基磺酸 (Perfluoroheptane sulfonate) (PFHpS)	375-92-8
	全氟庚基磺酸鈉 (PFHpS-Na) Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9
PFHpS, 及其鹽	全氟庚基磺酸鉀 (PFHpS-K) Potassium perfluoroheptanesulfonate (PFHpS-K)	60270-55-5
(PFHpS, its salts)	全氟庚基磺酸銨 (PFHpS-NH <sub>4</sub> ) Ammonium perfluoroheptanesulfonate (PFHpS-NH <sub>4</sub> )	68259-07-4
	全氟庚基磺酸鋰 (PFHpS-Li) Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9
	全氟辛烷磺酸 (Perfluorooctane sulfonates) (PFOS)	1763-23-1
	全氟辛基磺酸鉀 (PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	全氟辛基磺酸鋰 (PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	全氟辛基磺酸銨 (PFOS-NH <sub>4</sub> ) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	29081-56-9
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛基磺酸二乙醇銨 (PFOS-NH(OH) <sub>2</sub> ) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )	70225-14-8
	全氟辛基磺酸四乙基銨 (PFOS-N( $C_2H_5$ ) <sub>4</sub> ) Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N( $C_2H_5$ ) <sub>4</sub> )	56773-42-3
	全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1- sulfonate (PFOS-DDA)	251099-16-8



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	全氟辛基磺醯氟 (POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	全氟辛基磺酸鎂 (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛基磺酸鈉 (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	全氟辛烷磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctanesulfonate	71463-74-6
DEOCA THE	全氟辛基磺醯胺 (Perfluoroctanesulfonamide) (PFOSA)	754-91-6
PFOSA, 及其鹽 (PFOSA, its salts)	全氟辛基磺醯胺鋰鹽 (1:1) (PFOSA-Li) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
	全氟辛酸 (Perfluorooctanoic acid) (PFOA)	335-67-1
	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
PFOA, 及其鹽&衍生物	全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
(PFOA, its salts & derivatives)	全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	全氟辛酸鋰 (PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	1H,1H,2H,2H-全氟癸磺酸 (1H,1H,2H,2H- Perfluorodecanesulfonic acid) (8:2 FTS)	39108-34-4
8:2 FTS, 及其鹽 (8:2 FTS, its salts)	1H, 1H, 2H, 2H-全氟癸磺酸鉀 (8:2 FTS-K) 1H,1H,2H,2H-Perfluorodencane sulfonate acid Potassium salt (8:2 FTS-K)	438237-73-1
	1H, 1H, 2H, 2H-全氟癸磺酸銨 (8:2 FTS-NH <sub>4</sub> ) 1H,1H,2H,2H-Perfluorodencane sulfonate acid Ammonium salt (8:2 FTS-NH <sub>4</sub> )	149724-40-3



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
8:2 FTS, 及其鹽 (8:2 FTS, its salts)	1H, 1H, 2H, 2H-全氟癸磺酸鈉 (8:2 FTS-Na) 1H,1H,2H,2H-Perfluorodencane sulfonate acid Sodium salt (8:2 FTS-Na)	27619-96-1
	全氟壬酸 (Perfluorononan-1-oic acid) (PFNA)	375-95-1
	全氟壬酸鈉 (PFNA-Na) Perfluorononanoate Na-salt (PFNA-Na)	21049-39-8
	全氟壬酸銨 (APFN) Perfluorononanoate ammounium salt (APFN)	4149-60-4
PFNA, 及其鹽 (PFNA, its salts)	全氟壬酸鉀 (PFNA-K) Potassium perfluorononanoate (PFNA-K)	21049-38-7
	全氟壬酸鋰 (PFNA-Li) Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3
	全氟壬酸銀 (PFNA-Ag) Silver perfluorononanoate (PFNA-Ag)	7358-16-9
	全氟癸酸 (Perfluorodecane acid) (PFDA)	335-76-2
	全氟癸酸鈉 (PFDA-Na) Perfluorodecanoate Na-salt (PFDA-Na)	3830-45-3
	全氟癸酸氨 (APFDA) Perfluorodecanoate ammonium salt (APFDA)	3108-42-7
PFDA, 及其鹽 (PFDA, its salts)	全氟癸酸鉀 (PFDA-K*) Potassium perfluorodecanoate (PFDA-K*)	51604-85-4
	全氟癸酸銀 (PFDA-Ag) Silver perfluorodecanoate (PFDA-Ag)	5784-82-7
	全氟癸酸鋰 (PFDA-Li) Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
	全氟十一烷酸 (Perfluoroundecanoic acid) (PFUnDA)	2058-94-8
	全氟十一烷酸銨 (PFUnDA-NH <sub>4</sub> ) Ammonium perfluoroundecanoate (PFUnDA-NH <sub>4</sub> )	4234-23-5
PFUnDA, 及其鹽	全氟十一烷酸鈉 (PFUnDA-Na) Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7
(PFUnDA, its salts)	全氟十一烷酸鉀 (PFUnDA-K) Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
	全氟十一烷酸鈣 (PFUnDA-Ca) Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
PFDoDA, 及其鹽 (PFDoDA, its salts)	全氟十二烷酸 (Perfluorododecanoic acid) (PFDoDA)	307-55-1
	全氟十二烷酸銨 (APFDoDA)	3793-74-6
	Ammonium perfluorododecanoate (APFDoDA)	
	全氟十二烷酸鈉 (PFDoDA-Na)	60872-01-7
	Sodium perfluorododecanoate (PFDoDA-Na)	
PFTrDA, 及其鹽 (PFTrDA, its salts)	全氟十三烷酸 (Pentacosafluorotridecanoic acid) (PFTrDA)	72629-94-8
	全氟十三烷酸銨 (PFTrDA-NH <sub>4</sub> )	4288-72-6
	Ammonium perfluorotridecanoate (PFTrDA-NH <sub>4</sub> )	
PFNS, 及其鹽 (PFNS, its salts)	全氟壬烷磺酸 (Perfluorononane sulfonic acid) (PFNS)	68259-12-1
	全氟壬烷磺酸鈉 (PFNS-Na*)	98789-57-2
	Sodium perfluoro-1-nonanesulfonate (PFNS-Na*)	
	全氟壬烷磺酸銨 (PFNS-NH <sub>4</sub> )	17202-41-4
(FTN3, its saits)	Ammonium nonadecafluorononanesulphonate (PFNS-NH <sub>4</sub> )	
	全氟壬烷磺酸鉀 (PFNS-K*)	29359-39-5
	Potassium perfluorononanesulfonate (PFNS-K*)	
DED OC A H F	全氟十二烷磺酸 (Perfluorododecane sulfonic acid) (PFDoDS)	79780-39-5
PFDoDS, 及其鹽 (PFDoDS, its salts)	全氟十二烷磺酸鈉 (PFDoDS-Na*)	1260224-54-1
(F1 D0D3, Its saits)	Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na*)	
DET-DC 互甘酶	全氟十三烷磺酸 (Perfluorotridecane sulfonic acid) (PFTrDS)	791563-89-8
PFTrDS, 及其鹽 (PFTrDS, its salts)	全氟十三烷磺酸鈉 (PFTrDS-Na*)	174675-49-1
	Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na*)	
	全氟癸烷磺酸 (Perfluorodecane sulfonate) (PFDS)	335-77-3
	全氟癸烷磺酸鈉 (PFDS-Na)	2806-15-7
DEDC 卫甘腐	Perfluorodecanesulfonate Na-salt (PFDS-Na)	
PFDS, 及其鹽 (PFDS, its salts)	全氟癸烷磺酸鉀 (PFDS-K)	2806-16-8
	Perfluorodecanesulfonate K-salt (PFDS-K)	
	全氟癸基磺酸銨 (PFDS-NH <sub>4</sub> )	67906-42-7
	Perfluoroaliphatic dean-sulfonate salt of NH <sub>4</sub> (PFDS-NH <sub>4</sub> )	
LIODED A 互甘醇	2H,2H-全氟癸酸 (2H,2H-Perfluorodecane acid) (H2PFDA)	27854-31-5
H2PFDA, 及其鹽 (H2PFDA, its salts)	四丁基磷2H,2H-全氟癸酸酯	882489-14-7
	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate	



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
HFPO-DA, 及其鹽&衍生物 (HFPO-DA, its salts & derivatives)	2,3,3,3-四氟-2-(七氟丙氧基)丙酸 (2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acide) (HFPO-DA)	13252-13-6
	2,3,3,3-四氟-2-(七氟丙氧基)丙酸鉀 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, K-salts	67118-55-2
	2,3,3,3-四氟-2-(七氟丙氧基)丙酸銨 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, ammonium salts	62037-80-3
	2,3,3,3-四氟-2-(七氟丙氧基)丙酸醯基氟化物 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, its acyl halides	2062-98-8
4:2 FTS, 及其鹽 (4:2 FTS, its salts)	1H,1H,2H,2H-全氟己磺酸 (1H,1H,2H,2H- Perfluorohexanesulfonic acid) (4:2 FTS)	757124-72-4
	1H,1H,2H,2H-全氟己烷磺酸鈉 1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	27619-93-8
4HPFUnA, 及其鹽 (4HPFUnA, its salts)	2H,2H,3H,3H-全氟癸酸 (2H,2H,3H,3H-Perfluoroundecanoic Acid) (4HPFUnA)	34598-33-9
	2H,2H,3H,3H-全氟癸酸鉀 (H4PFUnA-K) Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H4PFUnA-K)	83310-58-1
	全氟戊磺酸 (Perfluoropentane sulfonic acid) (PFPeS)	2706-91-4
PFPeS, 及其鹽 (PFPeS, its salts)	全氟戊磺酸鈉 (PFPeS-Na*) Sodium perfluoro-1-pentanesulfonate (PFPeS-Na*)	630402-22-1
	全氟戊磺酸鉀 (PFPeS-K) Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1
	全氟辛戊磺酸銨 (PFPeS-NH <sub>4</sub> *) Ammonium perfluoropentanesulfonate (PFPeS-NH <sub>4</sub> *)	68259-09-6
8:2diPAP, 及其鹽 (8:2diPAP, its salts)	雙(1H,1H,2H,2H-全氟癸基)磷酸酯 (Bis(1H,1H,2H,2H- Perfluorodecyl)phosphate) (8:2diPAP)	678-41-1
	雙(1H,1H,2H,2H-全氟癸基)磷酸酯鈉 (8:2diPAP-Na) Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6



# **Test Report**

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智威科技股份有限公司 (ZOWIE TECHNOLOGY CORPORATION)

新北市新店區復興路43號3樓 (3/F., NO. 43, FUXING RD., XINDIAN DIST., NEW TAIPEI CITY, TAIWAN 23150)

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
11H-PFUnDA, 及其鹽 (11H-PFUnDA, its salts)	11H-全氟十一烷酸 (11H-Perfluoroundecanoic acid) (11H-PFUnDA)	1765-48-6
	11H-全氟十一烷酸鉀 (11H-PFUnDA-K) potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11- icosafluoroundecanoate (11H-PFUnDA-K)	307-71-1
	11H-全氟十一烷酸銨 (11H-PFUnDA-NH4) Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11- icosafluoroundecanoate (11H-PFUnDA-NH4)	5081-02-7



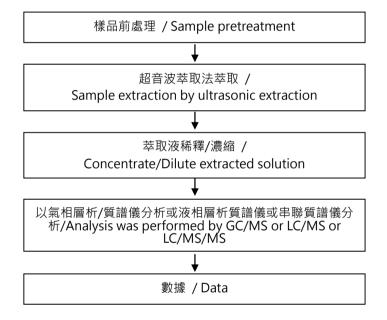
## **Test Report**

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智威科技股份有限公司 (ZOWIE TECHNOLOGY CORPORATION) 新北市新店區復興路43號3樓 (3/F., NO. 43, FUXING RD., XINDIAN DIST., NEW TAIPEI CITY, TAIWAN 23150)

全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)





## **Test Report**

號碼(No.): ETR24203788

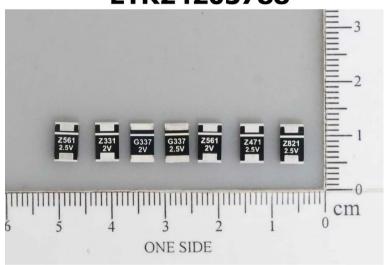
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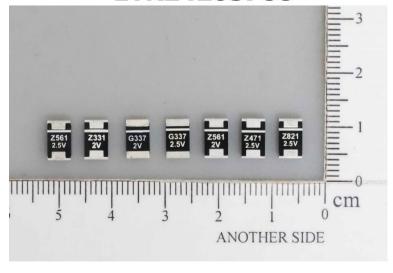
智威科技股份有限公司 (ZOWIE TECHNOLOGY CORPORATION) 新北市新店區復興路43號3樓 (3/F., NO. 43, FUXING RD., XINDIAN DIST., NEW TAIPEI CITY, TAIWAN 23150)

\* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. \* (The tested sample / part is marked by an arrow if it's shown on the photo.)

#### ETR24203788



#### ETR24203788



\*\* 報告結尾 (End of Report) \*\*

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