

**Test Report** No.: ETR25605503 Date: 08-Jul-2025 Page: 1 of 16

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : POWERCHIP SEMICONDUCTOR MANUFACTURING CORP.

Sample Name : 12 INCH WAFER

Style/Item No. : LOGIC PROCESS WAFER

\_\_\_\_\_\_

Sample Receiving Date : 27-Jun-2025

Testing Period : 27-Jun-2025 to 04-Jul-2025

**Test Requested** : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending

Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs,

DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) Please refer to next pages for the other item(s).

**Test Results**: Please refer to following pages.

Conclusion : (1) Based on the performed tests on submitted sample(s), the test results of Cadmium,

Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Troy Chang / Department Malager
Signed for and on behalf of Alwah
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: B293C904

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No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

#### **Test Part Description**

No.1 : WAFER

#### Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	100
Lead (Pb)	analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.	1000
	AMD1: 2017, analysis was performed				
	by ICP-OES.				
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017,	mg/kg	8	n.d.	1000
	analysis was performed by UV-VIS.				
Monobromobiphenyl		mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	-
Sum of PBBs	With reference to IEC 62321-6: 2015,	mg/kg	-	n.d.	1000
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromodiphenyl ether		mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.	-
Sum of PBDEs		mg/kg	-	n.d.	1000

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Page: 2 of 16



No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Butyl benzyl phthalate (BBP)		mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP)		mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP)		mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP)		mg/kg	50	n.d.	1000
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)	analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0)		mg/kg	50	n.d.	-
Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3)		mg/kg	50	n.d.	-
Bis(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8)		mg/kg	50	n.d.	-
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.	mg/kg	20	n.d.	-
Fluorine (F) (CAS No.: 14762-94-8)		mg/kg	50	n.d.	-
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	-
Bromine (Br) (CAS No.: 10097-32-2)	analysis was performed by IC.	mg/kg	50	n.d.	-
lodine (I) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
Arsenic (As) (CAS No.: 7440-38-2)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Red Phosphorus	Analysis was performed by Pyrolyzer-GC/MS.	**	-	Negative	-

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Page: 3 of 16



No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	•	mg/kg	0.01	n.d.	-
Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-

#### Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. \*\*= Qualitative analysis (No Unit)
- 6. Negative = Undetectable ; Positive = Detectable
- 7. 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. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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Page: 4 of 16



No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

#### PFAS Remark:

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.)

Group Name	Substance Name	CAS No.
	Perfluorooctane sulfonates (PFOS)	1763-23-1
	Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	29081-56-9
	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(C2H4OH)2)	70225-14-8
PFOS, its salts & derivatives	$\label{eq:perfluorooctanesulfonic acid, tetraethylammonium salt} $$(PFOS-N(C_2H_5)_4)$$	56773-42-3
	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
	TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N( $C_4H_9$ ) <sub>4</sub> )	111873-33-7
	Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctanesulfonate	71463-74-6

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Page: 5 of 16



No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP.
NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

Group Name	Substance Name	CAS No.
	Perfluorooctanesulfonate (anion)	45298-90-6
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	54439-46-2
	Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) (PFOS-N( $\mathrm{CH_3}$ ) <sub>4</sub> )	56773-44-5
	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N( $C_3H_7$ ) <sub>3</sub> ( $C_5H_{11}$ ))	56773-56-9
	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))	124472-68-0
	lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1)	213740-80-8
PFOS, its salts & derivatives	Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1)	258341-99-0
	Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4
	1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1)	773895-92-4
	Tetrabutylphosphonium perfluorooctane sulfonate (PFOS- $P(C_4H_9)_4$ ))	2185049-59-4
	Perfluorooctanesulfonic acid diethylamine salt (PFOS- $C_4H_{11}N$ )	2205029-08-7
	$\label{eq:heptyldimethyl} Heptyldimethyl \{2-[(2-methylprop-2-enoyl)oxy]ethyl\} azanium perfluorooctanesulfonate (PFOS-C_{15}H_{30}NO_2)$	1203998-97-3
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7

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Page: 6 of 16



No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

Group Name	Substance Name	CAS No.
	Perfluorooctanoic acid (PFOA)	335-67-1
	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	Silver perfluorooctanote (PFOA-Ag)	335-93-3
	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3 <sup>+</sup> ))	68141-02-6
	Pentadecafluorooctanoic acidpiperazine (2/1)PFOA-NH( $C_4$ H $_{10}$ N)	423-52-9
	Pentadecafluorooctanoate (anion)	45285-51-6
	Perfluorooctanoic Anhydride	33496-48-9
PFOA, its salts & derivatives	Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9
	Tetramethylammoniumperfluoroctanoat	32609-65-7
	1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	277749-00-5
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )	98065-31-7
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA- $C_2H_7N$ )	1376936-03-6
	Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA- $C_5H_5N$ )	95658-47-2
	Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA- $C_{10}H_{14}N_2$ )	1514-68-7
	1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- $C_{11}H_{26}N$ )	927835-01-6

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Page: 7 of 16



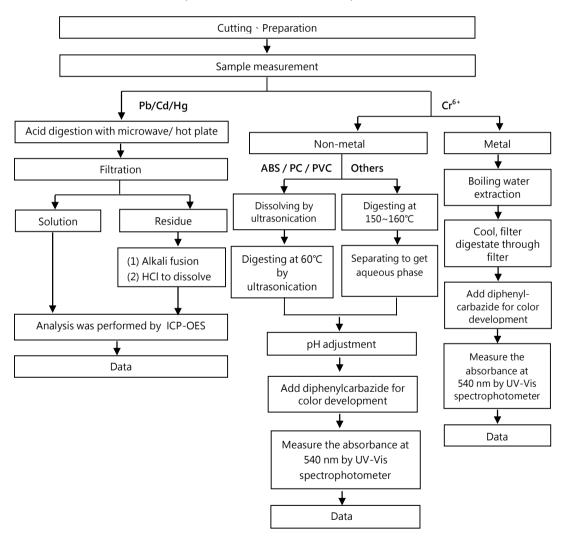
No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

#### Analytical flow chart of heavy metal

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

( Cr<sup>6+</sup> test method excluded )



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Page: 8 of 16



No.: ETR25605503 Date: 08-Jul-2025

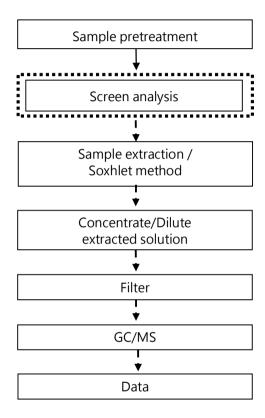
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#### Analytical flow chart - PBBs / PBDEs

First testing process

Optional screen process

Confirmation process



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Page: 9 of 16

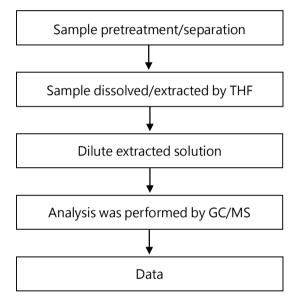


No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

#### Analytical flow chart - Phthalate

[Test method: IEC 62321-8]



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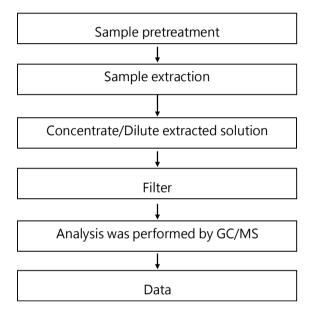
Page: 10 of 16



No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

#### Analytical flow chart - HBCDD



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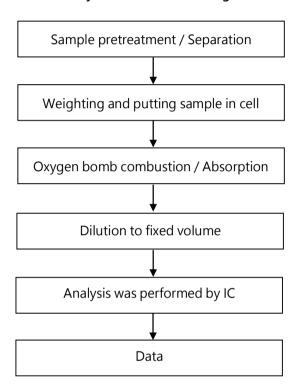
Page: 11 of 16



No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

#### Analytical flow chart - Halogen



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Page: 12 of 16



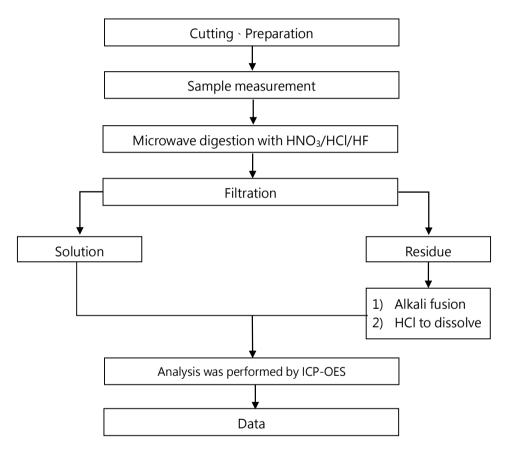
No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

#### Analytical flow chart of elements (Heavy metal included)

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

【Reference method: US EPA 3051A \ US EPA 3052】



<sup>\*</sup> US EPA 3051A method does not add HF.

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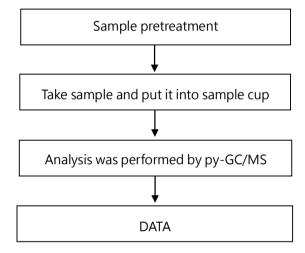
Page: 13 of 16



No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

#### Analytical flow chart - Red phosphorus



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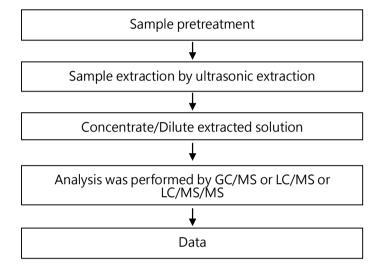
Page: 14 of 16



No.: ETR25605503 Date: 08-Jul-2025

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

#### Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)



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Page: 15 of 16



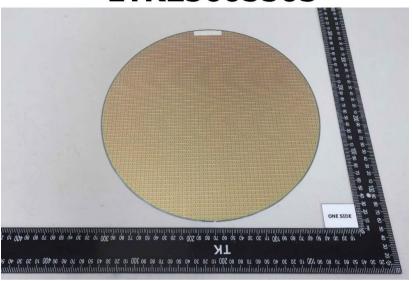
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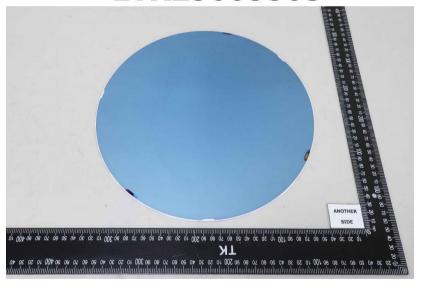
POWERCHIP SEMICONDUCTOR MANUFACTURING CORP. NO.12, LI-HSIN RD.1, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.

\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

### ETR25605503



### ETR25605503



\*\* End of Report \*\*

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Page: 16 of 16