

**Test Report No.:** NGBEC25000459303 **Date:** Jan 24, 2025 Page 1 of 13

Client Name: KONFOONG MATERIALS INTERNATIONAL CO., LTD

Client Address: NO.198 ANSHAN RD., MINGBANG TECH. & INDUSTRY PARK, YUYAO, ZHEJIANG, P.R.C

Sample Name: WTI Target

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

SGS Job No.: NBP25-000471 Sample Receiving Date: Jan 20, 2025

Testing Period: Jan 20, 2025 ~ Jan 24, 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
Halogen	See Results
Elements	See Results
Perfluorinated Compounds(PFCs)	See Results
Phthalates	See Results
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutylphthalate (DIBP)	Pass

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

May Zhang

**Approved Signatory** 





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## Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB25-0004593-0001.C001	Dark gray metal

#### Remarks:

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

### Halogen

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

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Fluorine(F)	14762-94-8	mg/kg	20	ND
Chlorine(Cl)	22537-15-1	mg/kg	50	ND
Bromine(Br)	10097-32-2	mg/kg	50	ND
lodine(I)	14362-44-8	mg/kg	50	ND

### **Elements**

**Test Method:** With reference to US EPA 3050B:1996, analysis was performed by ICP-OES.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Arsenic(As)	7440-38-2	mg/kg	10	ND
Barium(Ba)	7440-39-3	mg/kg	10	ND
Beryllium(Be)	7440-86-3	mg/kg	5	ND
Antimony(Sb)	7440-36-0	mg/kg	10	ND
Selenium(Se)	7782-49-2	mg/kg	10	ND

### Perfluorinated Compounds(PFCs)

**Test Method:** With reference to Modified EN 17681-1:2022, analysis was performed by HPLC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Perfluorooctane sulfonates (PFOS)^	1763-23-1	mg/kg	0.01	ND
Perfluorooctanoic acid (PFOA)^	-	mg/kg	0.01	ND

#### Notes:

(1) ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1



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ricport	NO NGBEC23000439303	<b>Date.</b> Jan 24, 2025	Page 3 0
Potassium Perfluoro	poctanesulfonate (PFOS-K)		2795-39-3
Perfluorooctanesulfo	onic acid, lithium salt (PFOS-Li)		29457-72-5
Sodium perfluorooct	tanesulfonate (PFOS-Na)		4021-47-0
Ammonium perfluoro	ooctanesulfonate (PFOS-NH4)		29081-56-9
Perfluorooctane sulf	fonate diethanolamine salt (PFOS-NH	l <sub>2</sub> (C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )	70225-14-8
Perfluorooctanesulfo	onic acid,tetraethylammonium salt (Pf	FOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	56773-42-3
	yldecan-1-aminium 1,1,2,2,3,3,4,4,5,5 ane-1-sulfonate (PFOS-N(C <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> (CF		251099-16-8
TetrabutylAmmoniur	m perfluorooctanesulfonate (PFOS-N	(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	111873-33-7
Perfluorooctane Sulf	fonyl fluoride (PFOS-F)		307-35-7
Magnesium bis(hept	tadecafluorooctanesulphonate) (PFO	S-Mg)	91036-71-4
Piperidine 1,1,2,2,3,	,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluo	rooctanesulfonate	71463-74-6
Perfluorooctanesulfo	onate		45298-90-6
Triethylammonium p	perfluorooctane sulfonate (PFOS-N(C	<sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	54439-46-2
Tetramethylammoni	ium perfluorooctane sulfonate (PFOS-	-N(CH <sub>3</sub> ) <sub>4</sub> )	56773-44-5
N,N,N-Tripropylpent N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> ))	tan-1-aminium heptadecafluorooctane	e-1-sulfonate (PFOS-	56773-56-9
(PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH			124472-68-0
lodonium, bis[4-(1,1) acid (1:1)	-dimethylethyl)phenyl]-, salt with perfl	uoro-1-octanesulfonic	213740-80-8
Diphenyl(2,4,6-trime	ethylphenyl)sulfonium perfluoro-1-octa	nesulfonate	258341-99-0
1-Hexadecylpyridinion	um perfluoro-1-octanesulfonate		334529-63-4
N,N,N-Triethyldecan	n-1-aminium heptadecafluorooctane-1	-sulfonate	773895-92-4
Tetrabutylphosphon	ium perfluorooctane sulfonate (PFOS	-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> ))	2185049-59-4
	onic acid diethylamine salt (PFOS-C₄l	,	2205029-08-7
	-methylprop-2-enoyl)oxy]ethyl}azaniu ane-1-sulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> )	m	1203998-97-3
Perfluorooctane sulf	fonic anhydride (PFOSAN)		423-92-7
PFOA, its salts & d	lerivatives		
Perfluorooctanoic ad	cid (PFOA)		335-67-1
Sodium perfluorooct	tanoate (PFOA-Na)		335-95-5
Potassium perfluoro	octanoate (PFOA-K)		2395-00-8
Silver perfluorooctar	note (PFOA-Ag)		335-93-3
Perfluorooctanoyl flu	uoride (PFOA-F)		335-66-0
Ammonium pentade	ecafluorooctanoate (APFO)		3825-26-1
Lithium perfluoroocta	anoate (PFOA-Li)		17125-58-5
Cobalt perfluoroocta	anoate (PFOA-Co)		35965-01-6
Cesium perfluorooct	tanoate (PFOA-Cs)		17125-60-9



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Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6
Pentadecafluorooctanoic acidpiperazine (2/1) (PFOA-NH(C <sub>4</sub> H <sub>10</sub> N))	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9
N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Tetrapropylammonium perfluorooctanoate	277749-00-5
Potassium pentadecafluorooctanoatewater (1/1/2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )	98065-31-7
Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)	1376936-03-6
Pentadecafluorooctanoic acidpyridine (1/1) (PFOA-C₅H₅N)	95658-47-2
pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )	1514-68-7
N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C <sub>11</sub> H <sub>26</sub> N)	927835-01-6

### **Phthalates**

**Test Method:** With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.01	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	%	0.003	ND

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

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Lead(Pb)	7439-92-1	1000	mg/kg	2	ND
Mercury(Hg)	7439-97-6	1000	mg/kg	2	ND
Cadmium(Cd)	7440-43-9	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	ı	μg/cm²	0.10	ND
Polybrominated biphenyls (PBB)	-	1000	mg/kg	ı	ND
Monobrominated biphenyl (MonoBB)	002113-57-7	ı	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	000092-86-4		mg/kg	25	ND
Tribrominated biphenyl (TriBB)	059080-33-0	ı	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	060044-24-8	ı	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	059080-39-6	-	mg/kg	25	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Hexabrominated biphenyl (HexaBB)	059080-40-9	ı	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	067733-52-2	1	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	027858-07-7	ı	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	069278-62-2	ı	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	013654-09-6	ı	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	-	1000	mg/kg	ı	ND
Monobrominated diphenyl ether (MonoBDE)	101-55-3	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	2050-47-7	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	147217-80-9	ı	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	93703-48-1	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	182677-28-7	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	189084-67-1	-	mg/kg	25	ND
Octabrominated diphenyl ether (OctaBDE)	337513-72-1	ı	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	63387-28-0	ı	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	1163-19-5	-	mg/kg	25	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	84-69-5	1000	mg/kg	50	ND

#### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI).
  - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
  - c. The result between 0.10 μg/cm<sup>2</sup> and 0.13 μg/cm<sup>2</sup> is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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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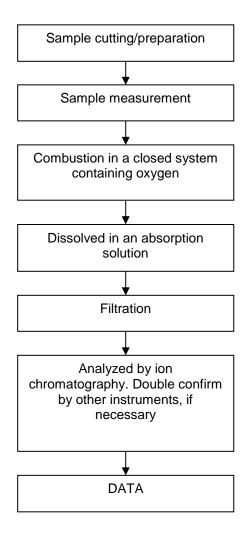
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## **Halogen Testing Flow Chart**





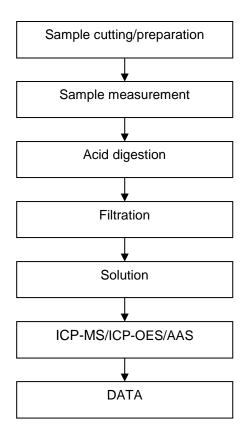
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## **Elements Testing Flow Chart**





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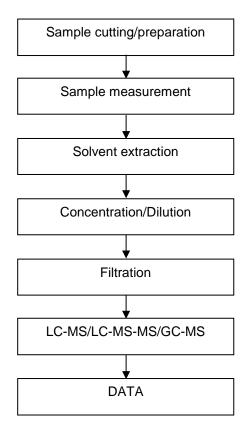
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## PFASs/ PFOS/PFOA Testing Flow Chart





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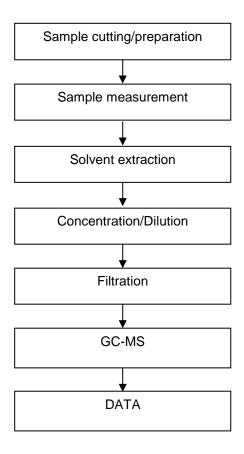
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## **Phthalates Testing Flow Chart**





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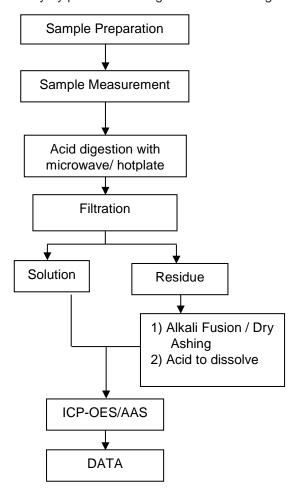
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## **Elements Testing Flow Chart**

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





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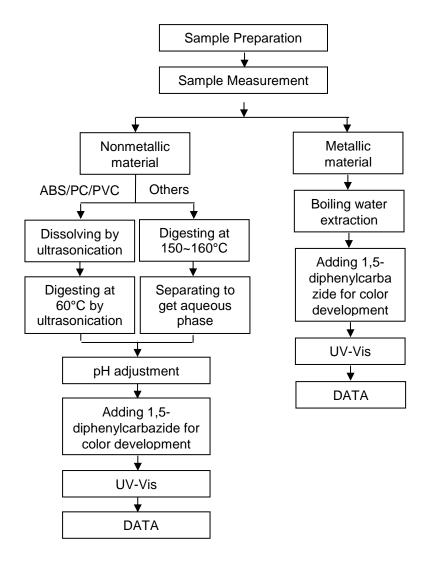
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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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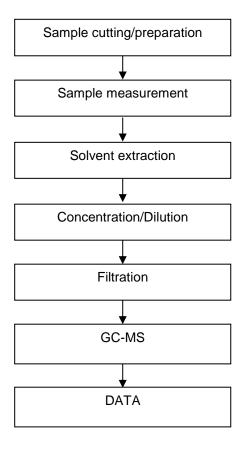
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## PBB/PBDE/Phthalates Testing Flow Chart





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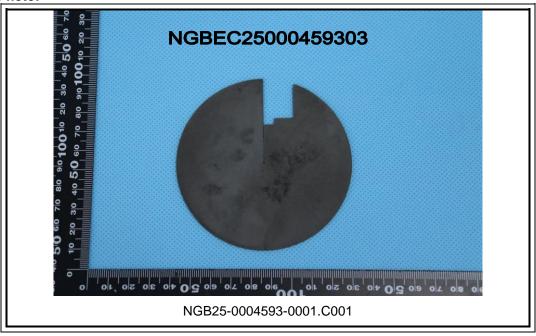
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Sample Photo:



SGS authenticate the photo on original report only \*\*\* End of Report \*\*\*



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