

Test Report

No.: NGBEC23002328507

Date: Jun 13, 2023

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Client Name: KONFOONG MATERIALS INTERNATIONAL CO., LTD(KFMI)

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

Sample Name: CuP

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

SGS Job No.: NBP23-000375

Sample Receiving Date: Jun 02, 2023

Testing Period: Jun 02, 2023 ~ Jun 13, 2023

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
Metal I 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

Hedy Hu
Approved Signatory

scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB23-0023285-0001.C001	Rose-gold metal block

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
Iodine(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
Beryllium(Be)	7440-86-3	mg/kg	5	ND
Antimony(Sb)	7440-36-0	mg/kg	10	ND

Perfluorinated Compounds (PFCs)

Test Method: With reference to CEN/TS 15968:2010, 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	0.025	ND
Perfluorooctanoic acid (PFOA)+	-	mg/kg	0.050	ND

Notes:

- (1) ^PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-Na (CAS No.: 4021-47-0), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH2(C2H4OH)2 (CAS No. 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-N(C10H21)2(CH3)2 (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7).
- (2) +PFOA refer to its salts/derivative including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1).



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Metal I 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, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	7440-43-9	100	mg/kg	2	ND
Lead(Pb)	7439-92-1	1000	mg/kg	2	ND
Mercury(Hg)	7439-97-6	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	-	µg/cm ²	0.10	ND
Polybromobiphenyl (PBBs)	-	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	002113-57-7	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	000092-86-4	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	059080-33-0	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	060044-24-8	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	059080-39-6	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	059080-40-9	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	067733-52-2	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	027858-07-7	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	069278-62-2	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	013654-09-6	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	-	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	101-55-3	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	2050-47-7	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	147217-80-9	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	93703-48-1	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	182677-28-7	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	189084-67-1	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	337513-72-1	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	63387-28-0	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	1163-19-5	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	84-74-2	1000	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	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.
- (3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm².
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/cm² and 0.13 µg/cm² is considered to be inconclusive -



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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.



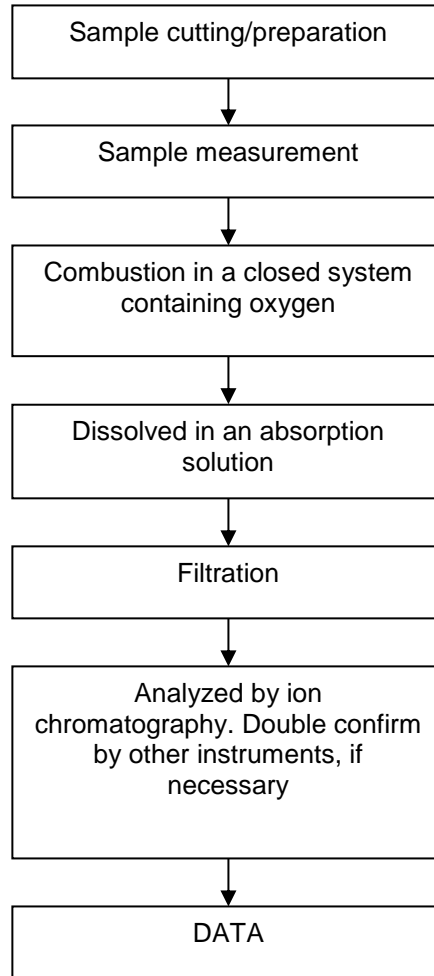
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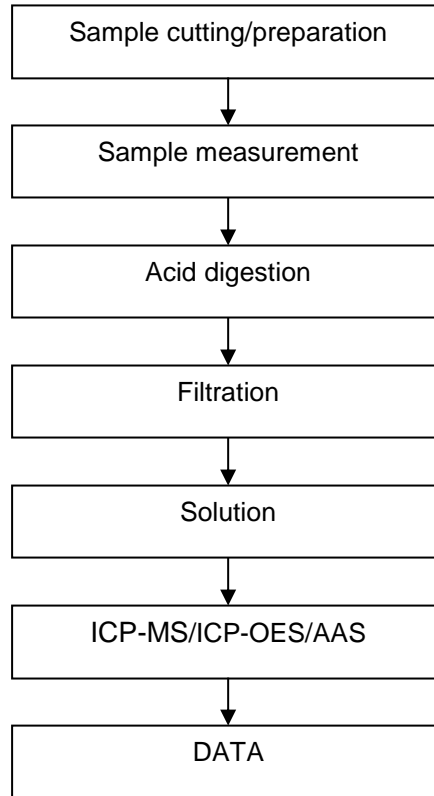
Halogen Testing Flow Chart



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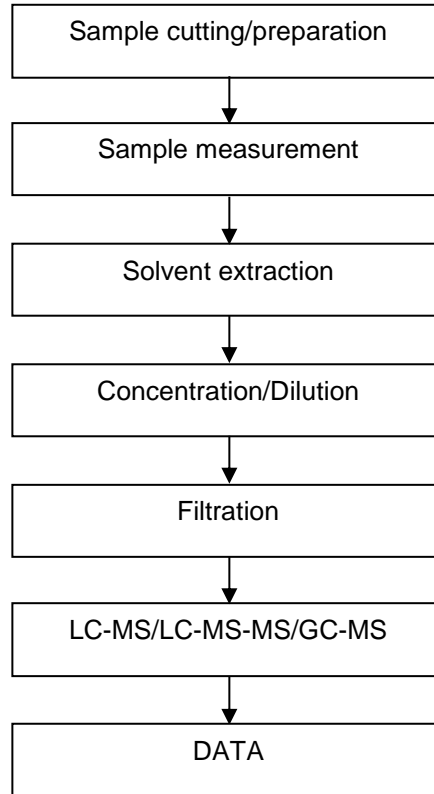
Elements Testing Flow Chart



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PFASs/ PFOS/PFOA Testing Flow Chart



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Elements Testing Flow Chart

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

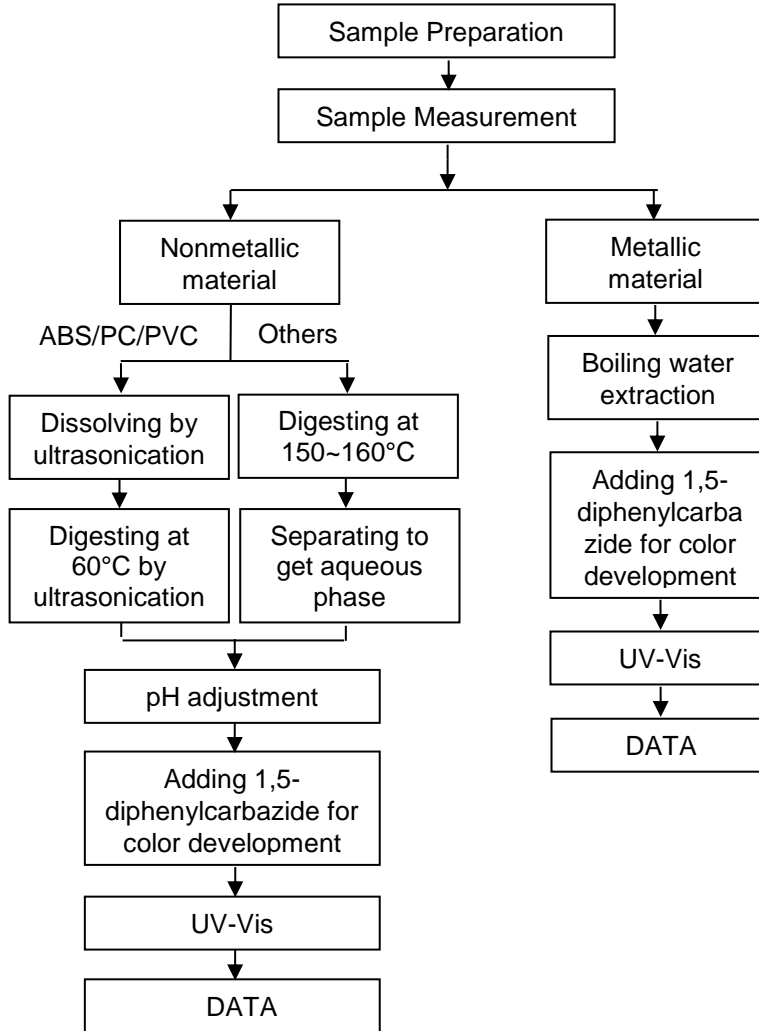


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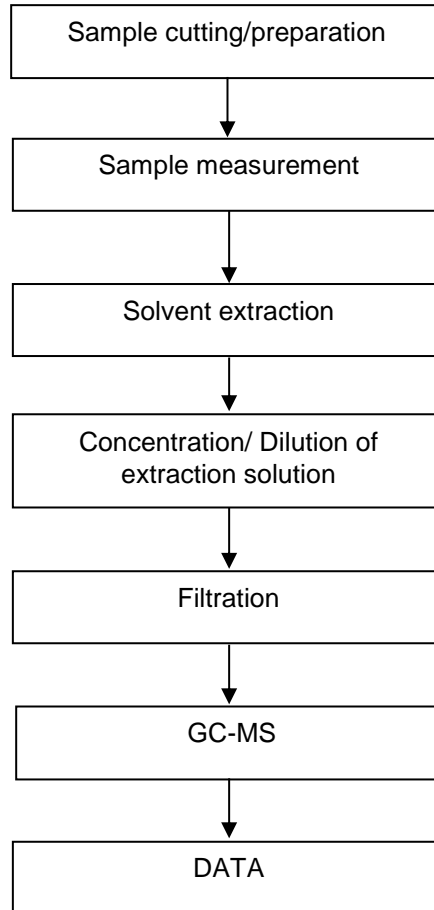
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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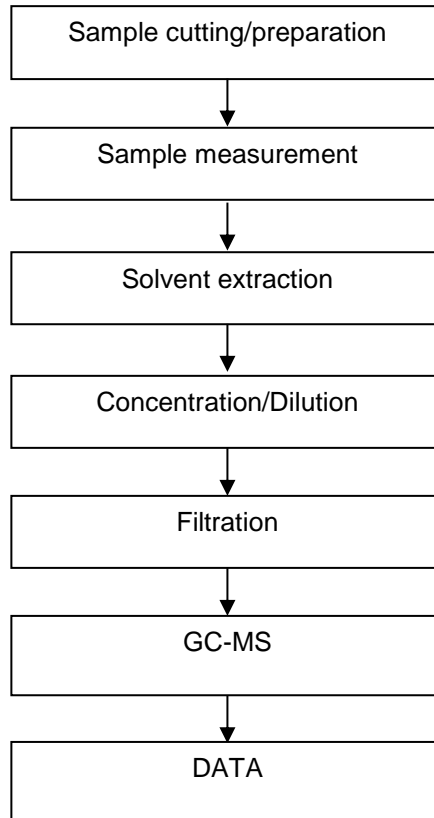
PBBs/PBDEs Testing Flow Chart



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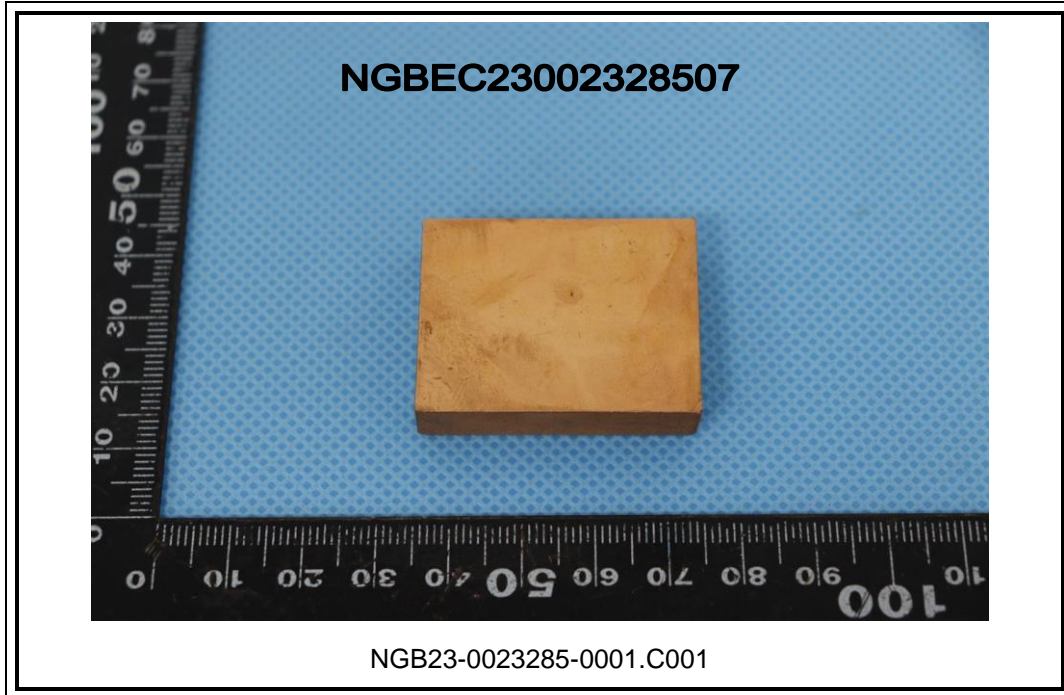
Phthalates Testing Flow Chart



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