

Test Report

No.: CANEC24001991603

Date: Feb 01, 2024

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Client Name: FURUKAWA ELECTRIC CO., LTD. COPPER & HIGH PERFORMANCE MATERIAL PRODUCTS DIVISION
 Client Address: 500 KIYOTAKI, NIKKO-CITY, TOCHIGI-PREF. 321-1493 JAPAN

Sample Name: Copper alloy: EFTEC-64T

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

SGS Job No.: GZP24-002294
 Sample Receiving Date: Jan 26, 2024
 Testing Period: Jan 26, 2024 ~ Feb 01, 2024
 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
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts	See Results
Halogen	See Results
Element(s)	See Results
Flame Retardants	See Results
Formaldehyde	See Results
Phthalates	See Results

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

Arsene Ye

Arsene Ye
 Approved Signatory



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A3	CAN24-0019916-0001.C003	Copper-colored metal

Remarks:

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (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/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A3
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit(s)	MDL	A3
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	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-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.

Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts

Test Method: Modified CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
PFOS and its derivatives	-	mg/kg	-	ND
Perfluorooctane Sulfonates (PFOS) and its salts*	1763-23-1	mg/kg	0.010	ND
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-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
Perfluorooctanoic Acid (PFOA) and its salts*	335-67-1	mg/kg	0.010	ND

Notes:



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(1) Perfluorooctanoic acid (PFOA) and its salts* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.

(2) Perfluorooctane sulfonates (PFOS) and its salts* including PFOS (CAS No. 1763-23-1), POSF(CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH₄ (CAS No. 29081-56-9), PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8), PFOS-NH₂(C₂H₄OH)₂ (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-N(C₂H₅)₄ (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.

Halogen

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

Test Item(s)	Unit(s)	MDL	A3
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

Element(s)

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

Test Item(s)	Unit(s)	MDL	A3
Arsenic(As)	mg/kg	10	ND
Beryllium(Be)	mg/kg	5	ND
Phosphorus(P)	mg/kg	20	ND
Antimony(Sb)	mg/kg	10	ND

Flame Retardants

Test Method: With reference to US EPA 3550C:2007 and US EPA 8270D:2014, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Tritolyl Phosphate	-	mg/kg	5	ND
Tris(1,3-dichloro-2-propyl)Phosphate(TDCPP)	13674-87-8	mg/kg	5	ND
Tris(2-chloroethyl)Phosphate(TCEP)	115-96-8	mg/kg	5	ND
Tris(1-chloro-2-propyl)Phosphate(TCPP)	13674-84-5	mg/kg	5	ND
2-Ethylhexyl tetrabromobenzoate(TBB)	183658-27-7	mg/kg	5	ND
Bis(2-ethylhexyl)-2,3,4,5-tetrabromophthalate(TBPH)	26040-51-7	mg/kg	5	ND
Triphenyl Phosphate	115-86-6	mg/kg	5	ND
2,2-bis(chloromethyl)trimethylene bis(bis(2-chloroethyl)phosphate)(V6)	38051-10-4	mg/kg	5	ND
4-(tert-Butyl)phenyl Diphenyl Phosphate(MDPP)	56803-37-3	mg/kg	5	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
Bis(tert-Butylphenyl)phenyl phosphate(DBPP)	65652-41-7	mg/kg	5	ND
Tris(4-tert-Butylphenyl)phosphate(TBPP)	28777-70-0 /78-33-1	mg/kg	5	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether(TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenyl ethers (PentaBDE)	32534-81-9	mg/kg	5	ND
Hexabromodiphenylether(HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenyl ethers (OctaBDE)	32536-52-0	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	-	mg/kg	5	ND
Trimethyl Phosphate(TMP)	512-56-1	mg/kg	5	ND
Triethyl Phosphate(TEP)	78-40-0	mg/kg	5	ND
Tributyl Phosphate(TBP)	126-73-8	mg/kg	5	ND
Triisobutyl Phosphate(TiBP)	126-71-6	mg/kg	5	ND
Bis(2,3-dibromopropyl)Phosphate(BDBPP)	5412-25-9	mg/kg	5	ND
Tris(2-butoxyethyl)Phosphate(TBEP)	78-51-3	mg/kg	5	ND
Tris-(2,3-dibromopropyl) Phosphate (Tris/TDBPP)	126-72-7	mg/kg	5	ND
Tris(2-ethylhexyl)Phosphate(TEHP)	78-42-2	mg/kg	5	ND
Tris-o-cresyl Phosphate(TOCP)	78-30-8	mg/kg	5	ND
Tris-m-cresyl Phosphate(TMCP)	563-04-2	mg/kg	5	ND
Tris-p-cresyl Phosphate(TPCP)	78-32-0	mg/kg	5	ND
Tetrabromobisphenol A(TBBPA)	79-94-7	mg/kg	5	ND
Bis(2,3-dibromopropyl ether) of TBBP-A (Bis-TBBPA)	21850-44-2	mg/kg	5	ND
Hexabromobenzene (HBB)	87-82-1	mg/kg	5	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	13654-09-6	mg/kg	5	ND
Polybromobiphenyl (PBBs)	-	mg/kg	5	ND
Hexabromocyclododecane (HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	5	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
Decabromodiphenylethane (DBDPE/DEBD)	84852-53-9	mg/kg	25	ND
Tris(aziridinyl)Phosphineoxide(TEPA)	545-55-1	mg/kg	5	ND
2,2-bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0	mg/kg	5	ND
Short Chain Chlorinate Paraffins(SCCP)(C10-C13)	85535-84-8	mg/kg	50	ND
Pentabromophenol(PBP)	608-71-9	mg/kg	5	ND
Short Chained Chlorinated Paraffins (C10-C13)	-	mg/kg	50	ND
Trixylyl Phosphate(TXP)	25155-23-1	mg/kg	5	ND
Resorcinol bis(Diphenyl Phosphate)	57583-54-7	mg/kg	5	ND
2-(2-Hydroxyethoxy)ethyl 2-hydroxypropyl 3,4,5,6-tetrabromobenzenedicaroxylate(TBPAD O)	77098-07-8	mg/kg	5	ND
Isopropylated triphenyl phosphate (IPTPP)	68937-41-7	-	-	0.67
Phosphoric acid, bis(methylphenyl) phenyl ester(MPHP)	26446-73-1	mg/kg	5	ND
TCP (TOCP+ TMCP+ TPCP)	-	mg/kg	-	ND
Bis(hexachlorocyclopentadieno)cyclooctane(Dechlorane Plus (DP))	13560-89-9 /135821-03-3 /135821-74-8	mg/kg	5	ND
Hexachlorobenzene	118-74-1	mg/kg	5	ND
Tricresyl Phosphate	1330-78-5	mg/kg	5	ND

Formaldehyde

Test Method: With reference to SGS In-house method (GZTC CHEM-TOP-059-03), analysis was performed by UV-Vis.

Test Item(s)	Unit(s)	MDL	A3
Formaldehyde	g/kg	0.02	ND

Phthalates

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	mg/kg	50	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND

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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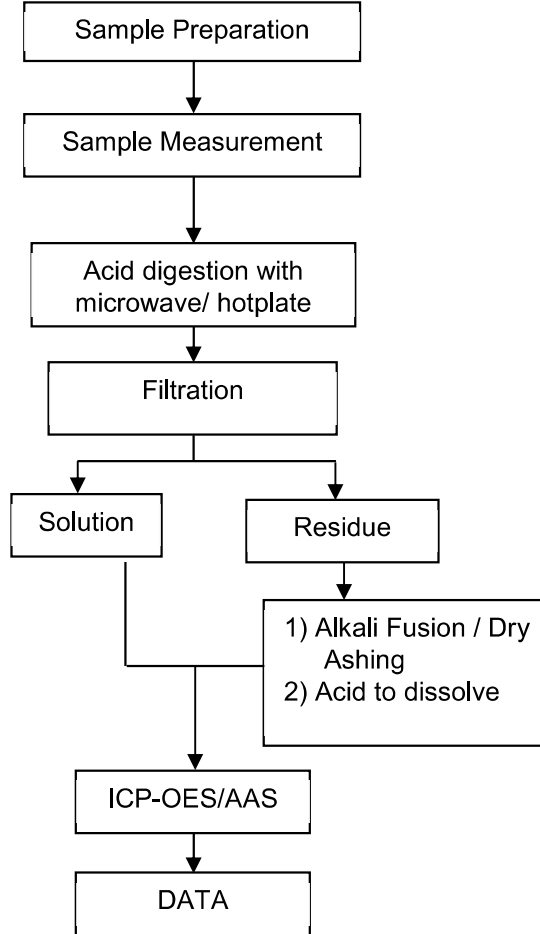
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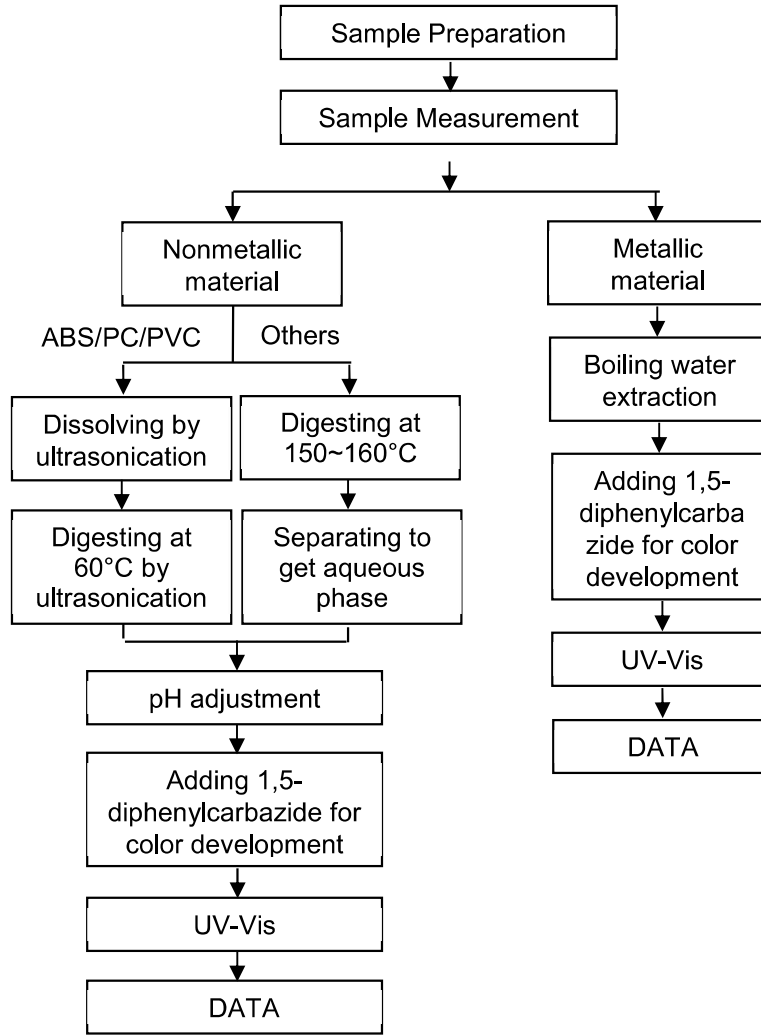
Elements Testing Flow Chart

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

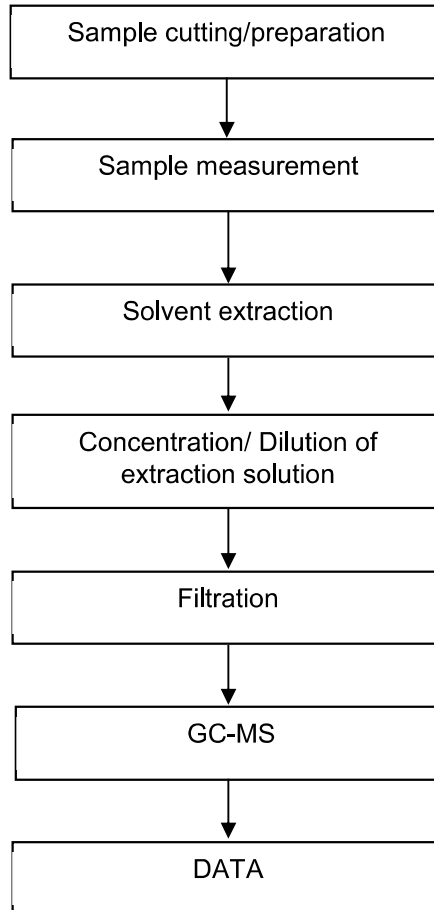


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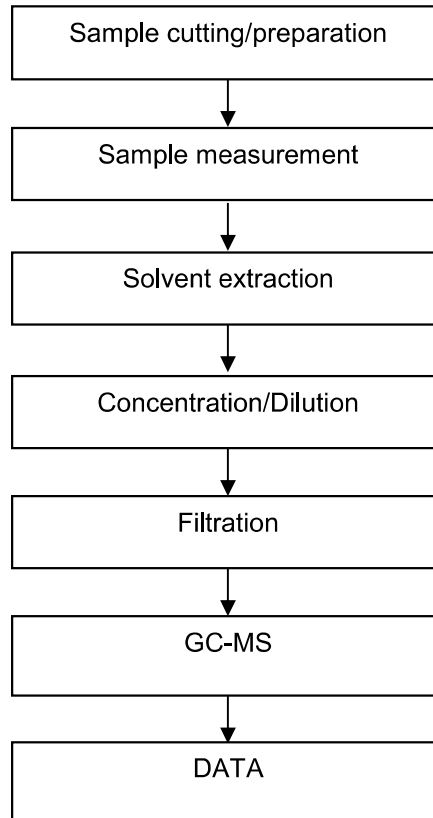
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



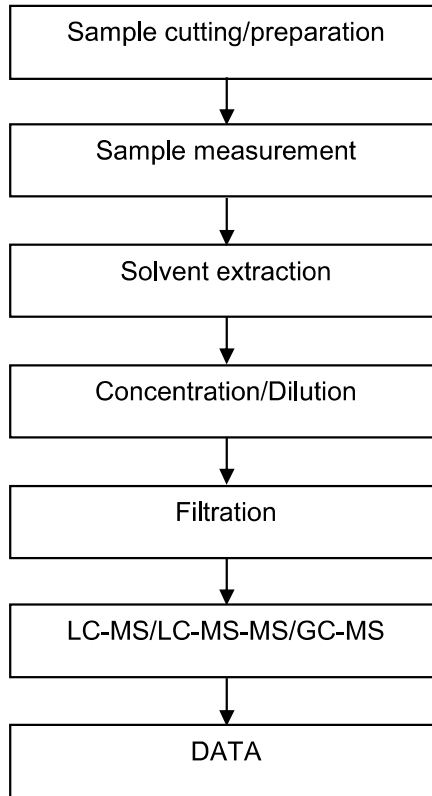
PBB/PBDE Testing Flow Chart



Phthalates Testing Flow Chart

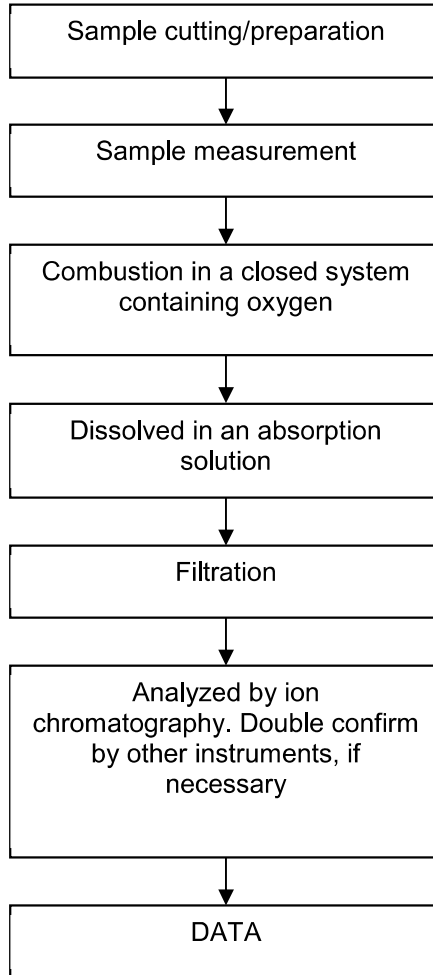


PFASs/ PFOS/PFOA Testing Flow Chart

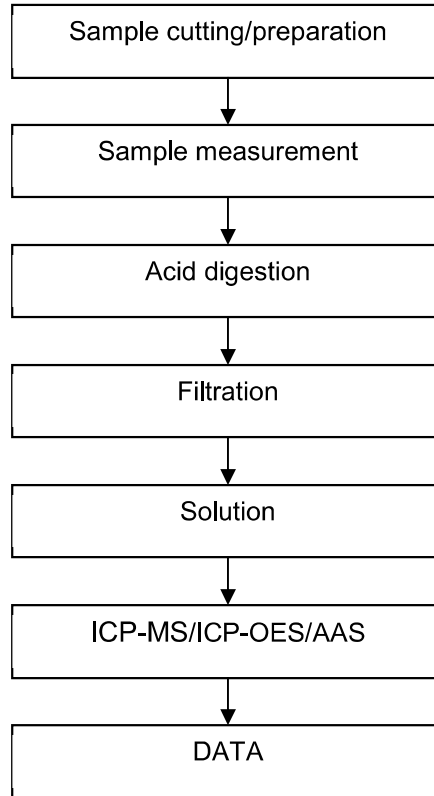


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Halogen Testing Flow Chart



Elements Testing Flow Chart



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Sample Photo:



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



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