

Test Report No. 5527631

Date : 24-Mar-2023

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Client : Metec Trading Co., Ltd.
45 Soi.Pattanakarn63, Pattanakarn Rd.,
Pravate, Bangkok 10250 Thailand

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

Sample Name : TIN HALF BALL
Sample Description : TIN HALF BALL
Batch/Lot No. : F08036641
Manufacturer/Vendor : KOKI PRODUCTS CO.,LTD.
Country of Origin : THAILAND

The following sample(s) was/were identified by SGS as:

SGS Sample No. : 5792268
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 22 pcs
Sample Receiving Date : 17-Mar-2023
Testing Period : 20-Mar-2023 to 24-Mar-2023

Test Requested : In accordance with the RoHS Directive 2011/65/EU (Annex II) [amended by Directive (EU) 2015/863]. Selected test (s) as requested by client.

Test Method : (1) IEC 62321-5 edition 1.0 : 2013 for Lead content, Analyzed by ICP-OES.
(2) IEC 62321-5 edition 1.0 : 2013 for Cadmium content, Analyzed by ICP-OES.
(3) IEC 62321-4 ,edition 1.1 : 2017 for Mercury Content, Analyzed by ICP-OES.
(4) IEC 62321-7-1 edition 1.0 : 2015 for Hexavalent Chromium Content, Analyzed by UV/Vis Spectrometry.
(5) IEC 62321-6 edition 1.0 : 2015 for PBBs/PBDEs content, Analyzed by GC/MS.
(6) IEC 62321-8 edition 1.0 : 2017 for Phthalates content, Analyzed was performed by GC/MS.
(7) IEC 62321-9:2021 for Hexabromocyclododecane content, Analysis was performed by GC-MS.
(8) With reference to CEN/TS 15968 : 2010. Analyzed by LC/MS.
(9) With reference to US EPA 3050B with - ICP-OES

Test Results : Please refer to next page.

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CONCLUSION

Based on the performed tests on submitted sample(s), the results of Cadmium (Cd), Lead (Pb), Mercury (Hg), Hexavalent chromium (Cr-VI), Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU where the decision rules based on simple acceptance which the probability of false accept may be as high as 50% in case the results is exactly on the tolerance limit.

Signed for and on behalf of
SGS (Thailand) Ltd.

Patcharee Treeporncharoen
Laboratory manager - Chemical

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TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Lead (Pb)	(1)	77	2	1000
Cadmium (Cd)	(2)	n.d.	2	100
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction # (Unit : (ug/cm ²))	(4)	n.d.	0.10	-

Test Part Description
Result (1) metal

Note :

- (a) mg/kg = ppm ; 0.1wt% = 1000 ppm
- (b) ug/cm² = microgram/centremeter square
- (c) n.d. = Not Detected
- (d) MDL = Method Detection Limit
- (e) # = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 ug/cm². The sample coating is considered to contain CrVI
- b. The sample is negative for CrVI if CrVI is n.d. (concentration less than 0.10 ug/cm²). The coating is considered a non-CrVI based coating
- c. The result between 0.10 ug/cm² and 0.13 ug/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination
- (f) "-" = Not regulated
- (g) For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Sum of PBBs	(5)*	n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-

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TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Sum of PBDEs	(5)*	n.d.	-	1000
Monobromodiphenyl ether		n.d.	5	-
Dibromodiphenyl ether		n.d.	5	-
Tribromodiphenyl ether		n.d.	5	-
Tetrabromodiphenyl ether		n.d.	5	-
Pentabromodiphenyl ether		n.d.	5	-
Hexabromodiphenyl ether		n.d.	5	-
Heptabromodiphenyl ether		n.d.	5	-
Octabromodiphenyl ether		n.d.	5	-
Nonabromodiphenyl ether		n.d.	5	-
Decabromodiphenyl ether		n.d.	5	-

Test Part Description
Result (1) metal

Note :

- (a) mg/kg = ppm ; 0.1 wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) "-" = Not regulated
- (e) Test done on client submitted sample

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TEST RESULTS

Phthalates Content for RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863], Analysis was performed by GC/MS.

Analysis	Method (Refer to)	Result (1) (mg/kg)	MDL	RoHS Limit (mg/kg)
DBP (Di-butyl phthalate) (CAS No.: 84-74-2)	(6)**	n.d.	50	1000
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	(6)**	n.d.	50	1000
DEHP (Di-2-ethylhexyl phthalate) (CAS No.: 117-81-7)	(6)**	n.d.	50	1000
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	(6)**	n.d.	50	1000

Test Part Description
Result (1) metal

Note :

- (a) mg/kg = ppm ; 0.1 wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) Test done on client submitted sample

Remarks :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021

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TEST RESULTS

Hexabromocyclododecane (HBCDD)

Test Method : With reference to IEC 62321-9:2021. Analysis was performed by GC/MS.

Test Item (s): (Method refer to 7)*	Unit	MDL	Result (1)
Hexabromocyclododecane (HBCDD)	mg/kg	10	n.d.

Note :

- (a) mg/kg = ppm ; 0.1 wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) Result (1) metal
- (e) Test done on client submitted sample

Perfluorooctanoic acid (PFOA)

Test Method: With reference to CEN/TS 15968:2010. Analysis was performed by LC-MS.

Test Item (s): (Method refer to 8)*	CAS No.	MDL (ug/kg)	Result (1) (ug/kg)
Perfluorooctanoic Acid (PFOA) +	335-67-1	25	n.d.

Note:

- (a) n.d. = Not detected
- (b) Method Detection Limit = 25 ug/kg (by client's request)
- (c) ug/kg = ppb (microgram/kilogram)
- (d) Result (1) metal
- (e) Test method as specified by client's request.

+ PFOA refer to its salts 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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TEST RESULTS

Analysis	Method (Refer to 9)*	Instrument	Unit	MDL	Result (1)
Beryllium (Be)	With reference to US EPA 3050B	ICP-OES	ppm	5	n.d.

Note :

- (a) mg/kg = ppm ; 0.1wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) Result (1) metal
- (e) Test done on client submitted sample

Test(s) marked * on this report are not included in the Accreditation Scope.

The test item(s) marked with ** are tested by SGS (Thailand) Ltd. - Amata City Chonburi Industrial Estate, Chonburi Province with no accreditation.

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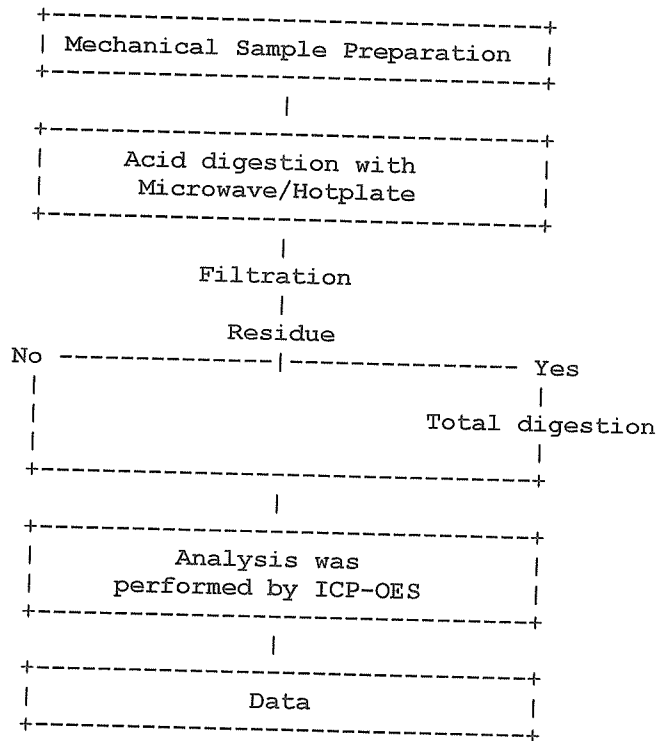
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NSC-TISI-TIS 17025
Testing 0013
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Flow chart of Pb,Cd,Hg Testing

(Test method : IEC 62321)



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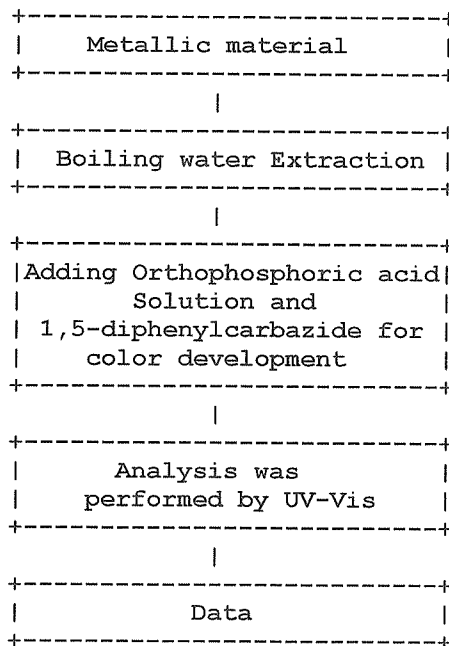
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Flow chart of Hexavalent Chromium Testing

(Test method : IEC 62321)



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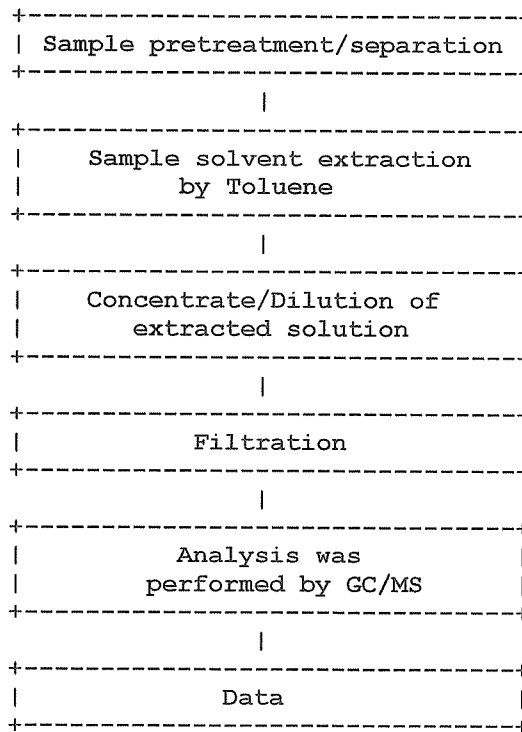
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Flow chart of PBBs, PBDEs Testing

(Test method : IEC 62321)



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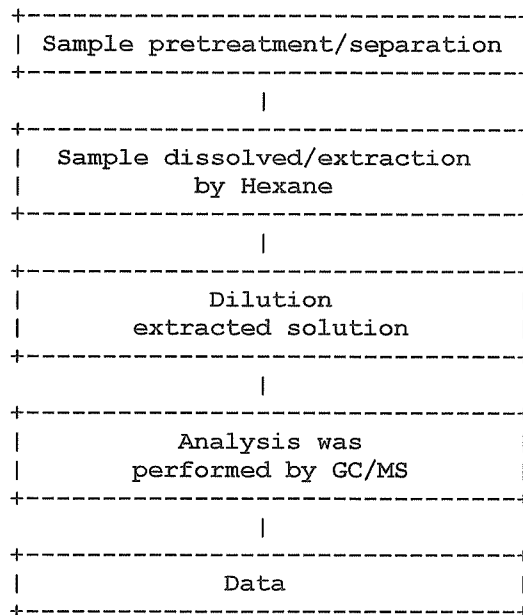
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Flow chart of Phthalates Testing

(Test method : IEC 62321)



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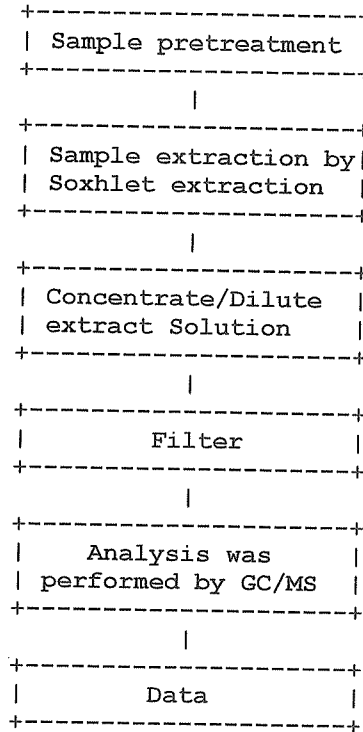
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Flow chart of HBCDD Analysis



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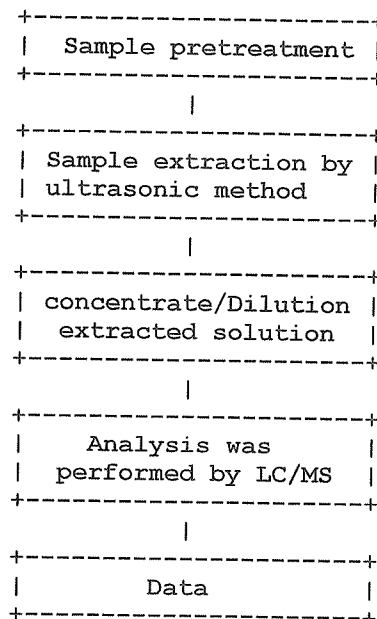
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Flow chart of PFOA Analysis



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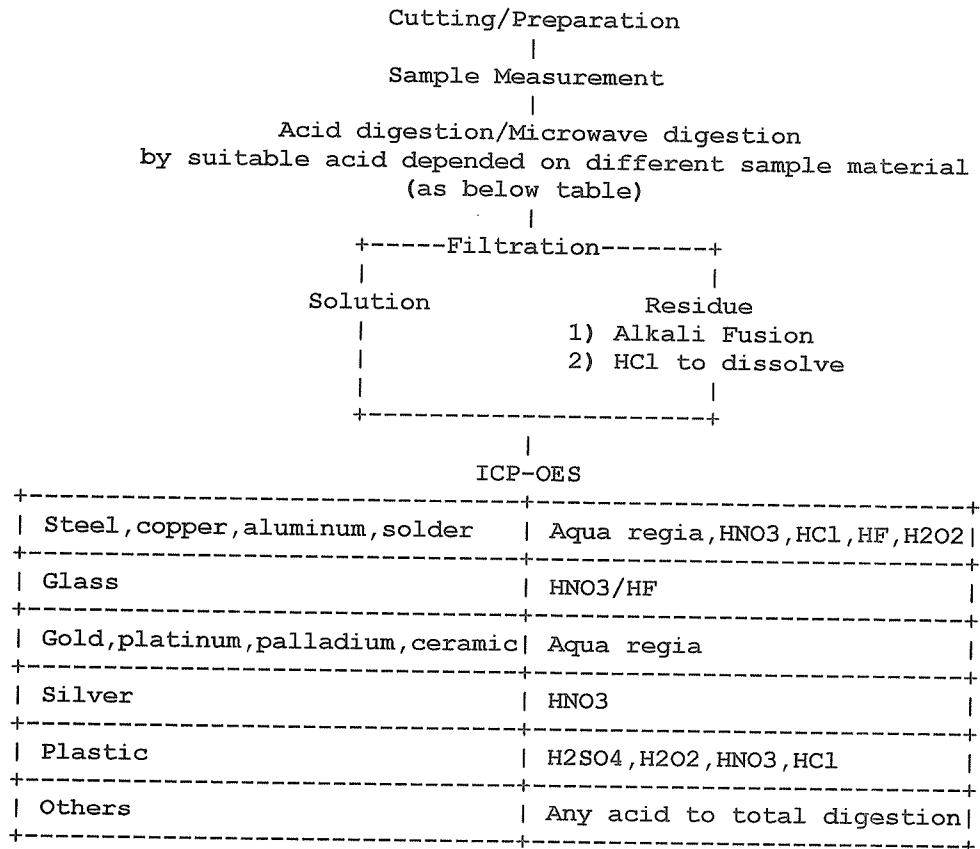
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Flow chart of digestion for the element analysis performed by ICP-OES



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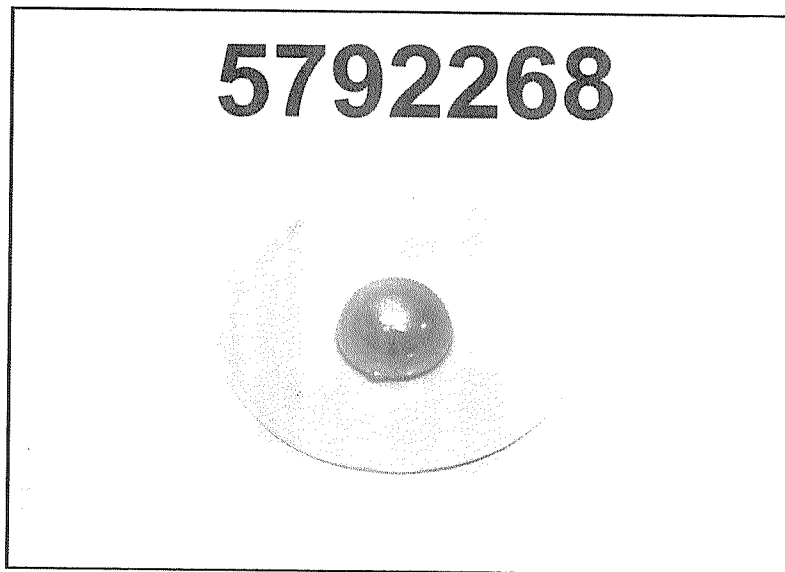
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SAMPLE/ATTACHMENT PICTURE



***** End of Report *****

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Date : 23-Aug-2023

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Client : Metec Trading Co., Ltd.
45 Soi.Pattanakarn63, Pattanakarn Rd.,
Pravate, Bangkok 10250 Thailand

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

Sample Name : TIN HALF BALL
Sample Description : TIN HALF BALL
Manufacturer/Vendor : KOKI PRODUCTS CO., LTD.
Country of Origin : THAILAND

The following sample(s) was/were identified by SGS as:

SGS Sample No. : 5938308
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 12 pcs.
Sample Receiving Date : 16-Aug-2023
Testing Period : 16-Aug-2023 to 23-Aug-2023

Test Method & Results : Please refer to next page(s).

Signed for and on behalf of
SGS (Thailand) Ltd.

Patcharee Treeporncharoen
Laboratory manager - Chemical

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TEST RESULTS

Analysis	Method	Instrument	Unit	MDL	Result (1)
Halogen	-	-	-	-	-
Halogen - Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582 : 2016	Analyzed was performed by Ion Chromatography	mg/kg	50	n.d.
Halogen - Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582 : 2016	Analyzed was performed by Ion Chromatography	mg/kg	50	n.d.
Halogen - Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582 : 2016	Analyzed was performed by Ion Chromatography	mg/kg	50	n.d.
Halogen - Iodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582 : 2016	Analyzed was performed by Ion Chromatography	mg/kg	50	n.d.

Notes :

- (a) mg/kg = ppm
- (b) n.d. = not detected
- (c) MDL = Method detection limit
- (d) Test done on client submitted sample
- (e) Result (1) metal

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TEST RESULTS

Perfluorooctane Sulfonates (PFOS)

Method: With reference to CEN/TS 15968:2010. Analysis was performed by LC/MS.

Test Item (s):	CAS No.	MDL (mg/kg)	Result (1) (mg/kg)
Perfluorooctane sulfonates (PFOS)^	1763-23-1	1	n.d.
N-ethylperfluoro-1-octanesul fonamide (EtFOSA)	4151-50-2	1	n.d.
N-methylperfluoro-1-octanesul fonamide (MeFOSA)	31506-32-8	1	n.d.
2-(N-ethylperfluoro-1-octanesul fonamido) - ethanol (EtFOSE)	1691-99-2	1	n.d.
2-(N-methylperfluoro-1-octanesul fonamido) - ethanol (MeFOSE)	24448-09-7	1	n.d.
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	1	n.d.

Test Part Description

Result (1) metal

Note :

(a) mg/kg = ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) Test done on client submitted sample

(e) Test method as specified by client's request.

(f) ^ 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)

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TEST RESULTS

Analysis	Method	Instrument	Unit	MDL	Result (1)
Antimony (Sb)	With reference to US EPA 3050B	ICP-OES	ppm	5	55

Note :

- (a) mg/kg = ppm ; 0.1wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) Result (1) metal
- (e) Test done on client submitted sample

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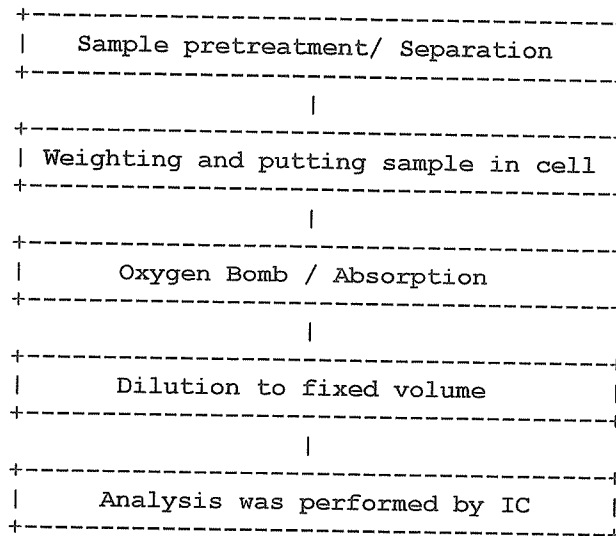
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Analytical flow chart of halogen content



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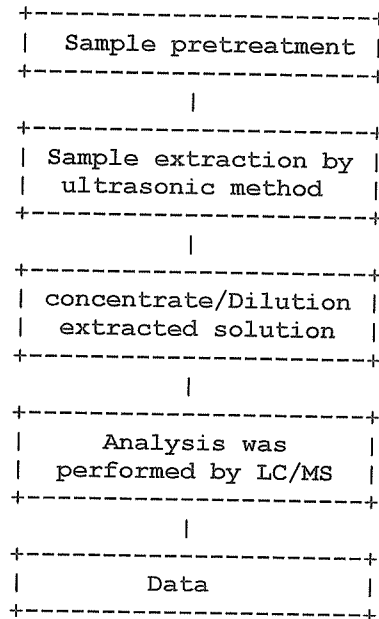


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Flow chart of PFOS Analysis



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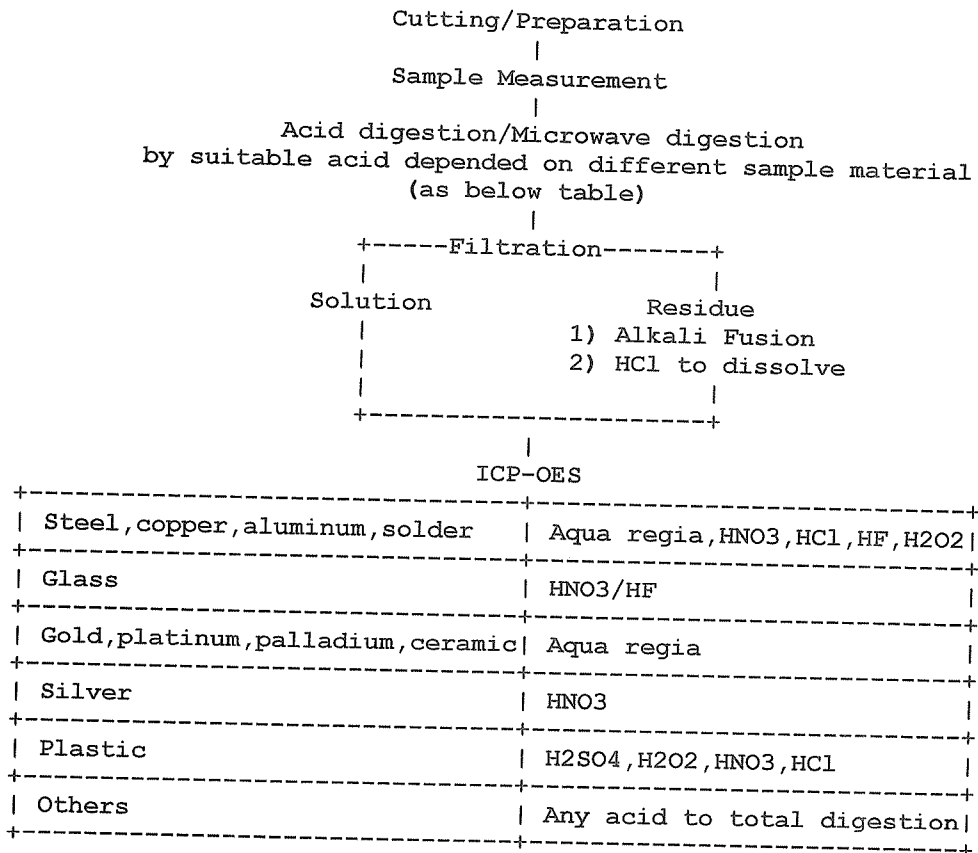
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Flow chart of digestion for the element analysis performed by ICP-OES



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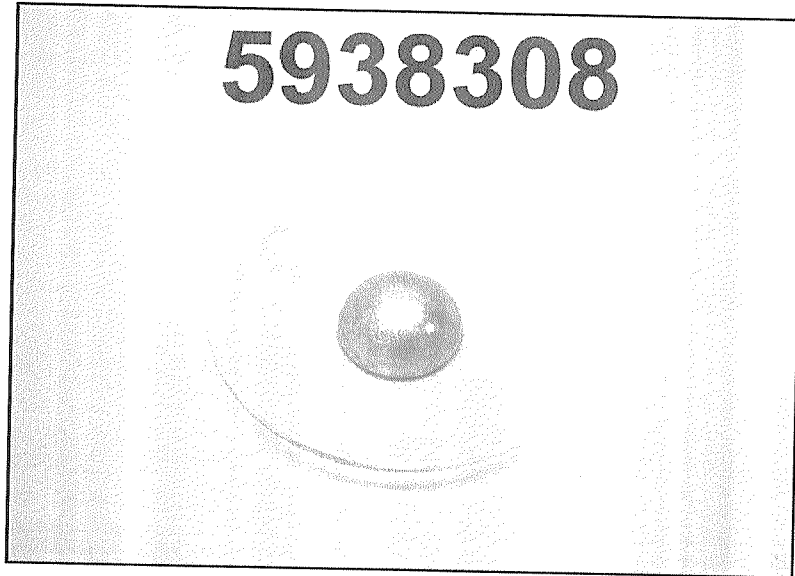
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SAMPLE/ATTACHMENT PICTURE



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