

Test Report No. 5164166

Date : 31-Jan-2022

Page 1 of 19

**Client : Oriental Copper Co.,Ltd.
27 th FL, Bangkok Insurance / Y.W.C.A. Building , 25 South Sathon Rd.
Thungmahamek , Sathon Bangkok 10120 Thailand**

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

Sample Name : Cu-OFE Copper Busbar
 Sample Description : Copper Busbar
 Material Type : Copper
 Manufacturer/Vendor : ORIENTAL COPPER CO., LTD.
 Country of Origin : Thailand
 Country of Destination : Dometdic & Export

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

SGS Sample No. : 5378322
 Sample Condition : As per attached photograph.
 Quantity Submitted : 1 pc
 Sample Receiving Date : 24-Jan-2022
 Testing Period : 24-Jan-2022 to 31-Jan-2022

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) Perfluorooctane Sulfonates (PFOS) - With reference to CEN/TS 15968 : 2010 Analyzed by LC/MS. Follow Global SOP : RSTS-CHEM-219-1
 (8) Perfluorooctanoic acid (PFOA) - With reference to CEN/TS 15968 : 2010 Analyzed by LC/MS. Follow Global SOP : RSTS-CHEM-219-1
 (9) LBCH-08482 based on BS EN 14582 : 2016
 (10) With reference to IEC 62321 with - ICP-OES
 (11) With reference to IEC 62321 with - ICP-OES

Test Results : Please refer to next page.

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4865879

Test Report No. 5164166

Date : 31-Jan-2022

Page 2 of 19

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) Limited**

**Anchalee Wunnaphuek
Acting – RSTS Lab Manager**

4865879

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Test Report No. 5164166

Date : 31-Jan-2022

Page 3 of 19

TEST RESULTS

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

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Lead (Pb)	(1)	n.d.	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/cm2))	(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 represent status of the sample at the time of testing.

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4865879

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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4865879

Test Report No. 5164166

Date : 31-Jan-2022

Page 5 of 19

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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4865879

Test Report No. 5164166

Date : 31-Jan-2022

Page 6 of 19

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

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4865879

Test Report No. 5164166

Date : 31-Jan-2022

Page 7 of 19

TEST RESULTS

Perfluorooctane Sulfonates (PFOS)

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

Test Item (s): (Method refer to 7)**	CAS No.	MDL (mg/kg)	Result (1) (mg/kg)
Perfluorooctane Sulfonates (PFOS) [^]	1763-23-1	10	n.d.
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	10	n.d.
2-(N-methylperfluoro-1-octane- sulfonamido)-ethanol (MeFOSE)	24448-09-7	10	n.d.
2-(N-ethylperfluoro-1-octane- sulfonamido)-ethanol (EtFOSE)	1691-99-2	10	n.d.
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	10	n.d.
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	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

[^] PFOS refer to its salts / derivative including PFOS-K (CAS No.: 2795-39-3) , PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)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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4865879

Test Report No. 5164166

Date : 31-Jan-2022

Page 8 of 19

TEST RESULTS

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 (mg/kg)	Result (1) (mg/kg)
Perfluorooctanoic Acid (PFOA) +	335-67-1	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

+ 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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4865879

Test Report No. 5164166

Date : 31-Jan-2022

Page 9 of 19

TEST RESULTS

Analysis	Method (Refer to 9)**	Instrument	Unit	MDL	Result (1)
Halogen	-	-	-	-	-
Halogen-Fluorine (F) (CAS No.14762-94-8)	LBCH-08482 based on BS EN 14582 : 2016	Analyzed was performed by Ion Chromatography	mg/kg	50	n.d.
Halogen -Chlorine (Cl) (CAS No.22537-15-1)	LBCH-08482 based on BS EN 14582 : 2016	Analyzed was performed by Ion Chromatography	mg/kg	50	n.d.
Halogen -Bromine (Br) (CAS No.10097-32-2)	LBCH-08482 based on BS EN 14582 : 2016	Analyzed was performed by Ion Chromatography	mg/kg	50	n.d.
Halogen-Iodine (I) (CAS No.14362-44-8)	LBCH-08482 based on 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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4865879

Test Report No. 5164166

Date : 31-Jan-2022

Page 10 of 19

TEST RESULTS

Analysis	Method (Refer to)	Instrument	Unit	MDL	Result (1)
Antimony (Sb)	(10)*	ICP- OES	mg/kg	5	n.d.
Beryllium (Be)	(11)*	ICP-OES	mg/kg	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

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

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

The test item(s) marked with ** are tested by Laboratory Services - Bangkok with no Accreditation.

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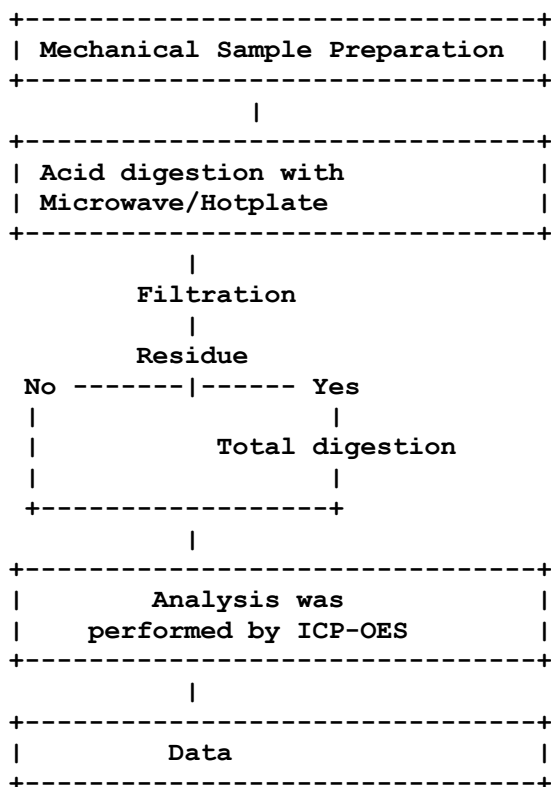
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Flow chart of Pb,Cd,Hg Testing

(Test method : IEC 62321)



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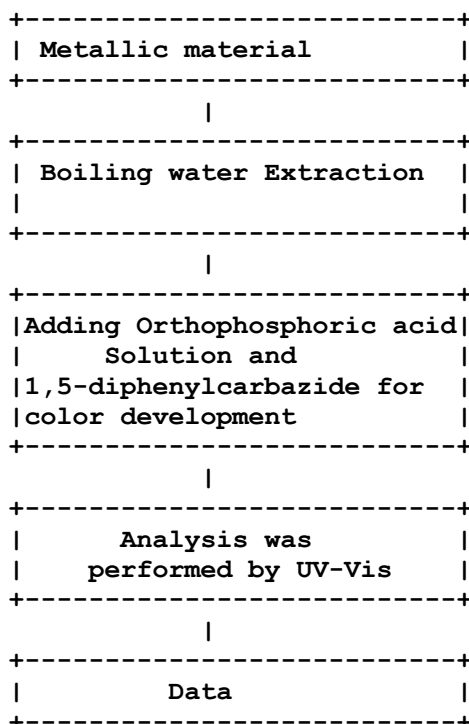
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Flow chart of Hexavalent Chromium Testing

(Test method : IEC 62321)



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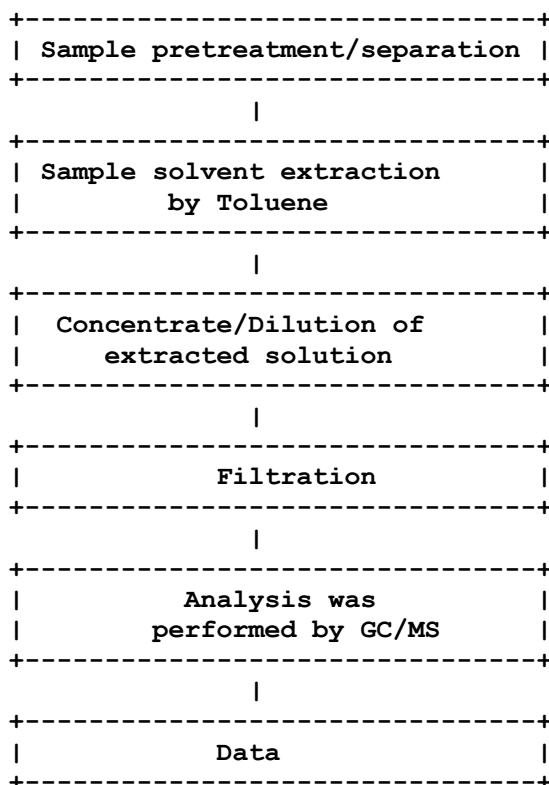
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Flow chart of PBBs, PBDEs Testing

(Test method : IEC 62321)



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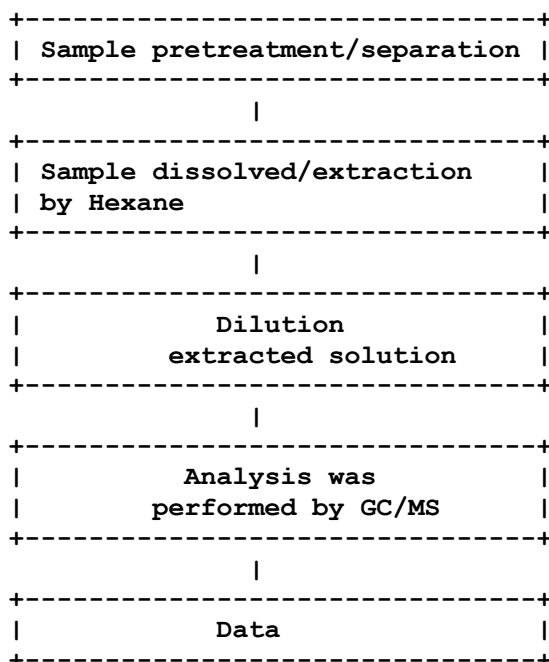
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Flow chart of Phthalates Testing

(Test method : IEC 62321)



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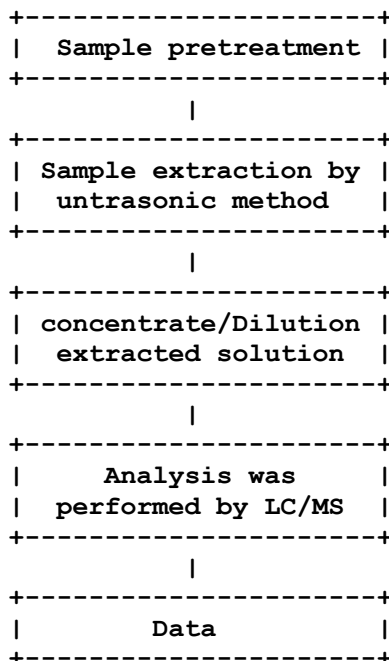
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Flow chart of PFOS Analysis



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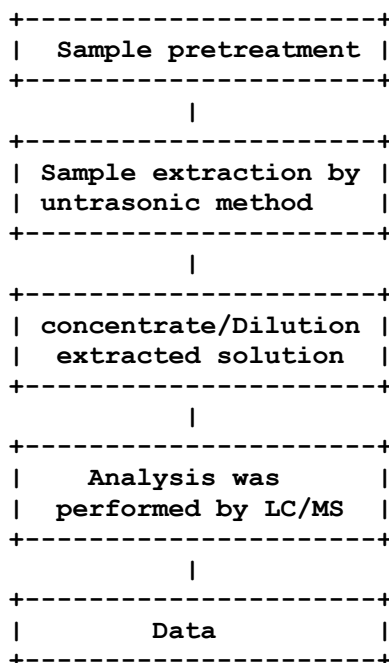
Test Report No.

5164166

Date : 31-Jan-2022

Page 16 of 19

Flow chart of PFOA Analysis



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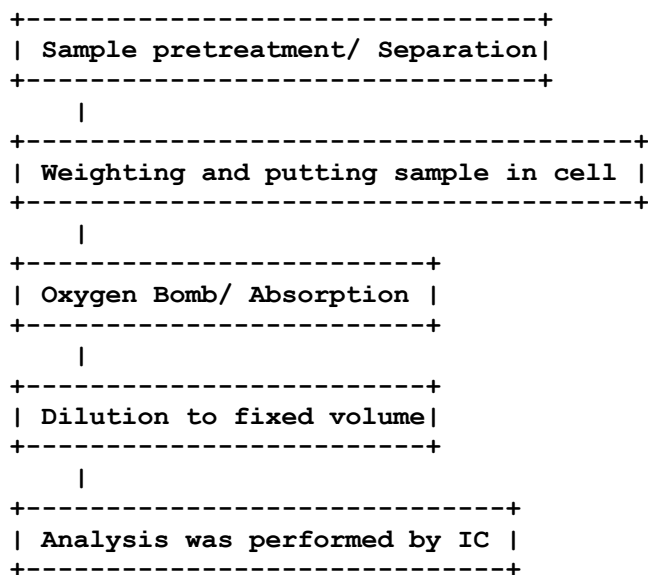
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Analytical flow chart of halogen content



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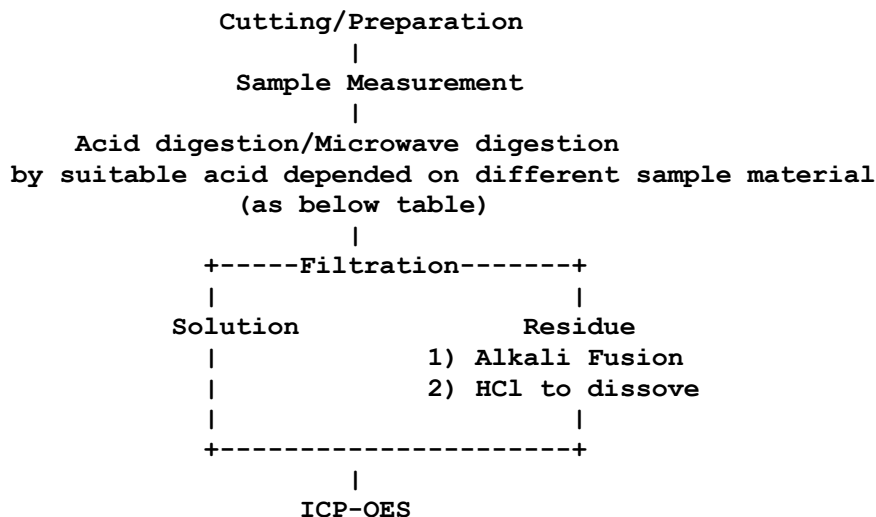
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Flow chart of digestion for the element analysis performed by ICP-OES



Steel ,copper ,aluminum ,solder	Aqua regia ,HNO3 ,HCl ,HF ,H2O2
Glass	HNO3/HF
Gold ,platinum ,palladium ,ceramic	Aqua regia
Silver	HNO3
Plastic	H2SO4 ,H2O2 ,HNO3 ,HCl
Others	Any acid to total digestion

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Test Report No. 5164166

Date : 31-Jan-2022

Page 19 of 19

SAMPLE/ATTACHMENT PICTURE



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