Report No. : HS2204290042A-1 Version : B

INTEGRATED SERVICE TECHNOLOGY

CHEMICAL ANALYSIS TEST REPORT

Company : <u>TAI HONG CIRCUIT IND. Co., Ltd.</u>

Address : No.81, KUANG FU RD., HSINCHU IND. PARK, FUKOU HSANG,

HSINCHU HSIEN, TAIWAN

Product Name : (Ni)NICKEL

Date Received : APR 29, 2022

Date Tested : MAY 06, 2022

TESTING LABORATORY IS ACCREDITED BY:

IECQ ISO/IEC 17025 certificate of independent test laboratory approval

Certificate No.: IECQ-L DEKRA 16.0002

WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

	Name	Signature	Date	
Test Engineer	Xiaohu Chen	Licobu Chen	Мау 11, 2022	
Manager	Wenston Lin	Wenston lin	Мау 11, 2022	

NOTE:

- 1. This report will be invalid if reproduced in part or altered in any way.
- 2. This report refers only to the specimen(s) submitted to test, and is invalid. It is every likely and its invalid.
- 3. This report is ONLY valid with the examination seal and signature this institute.
- 4. The tested specimen(s) will only be preserved for thirty days from h設健康等時間 no collected by the applicant.



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1. GENERAL INFORMATION

1.1 DESCRIPTION OF SAMPLE

Product Name : (Ni)NICKEL



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2. CHEMICAL ANALYSIS TEST

2.1 TEST CONDITIONS AND RESULTS

*Description of test part : SILVER COLORED METAL SHEET/Nickel (Ni)					
Test Item(s)	Method	Instrument	Unit	MDL	Result
Lead (Pb)	Refer to IEC 62321-5:2013 Refer to IEC62321-4:2013+ AMD1:2017	ICP-OES	mg/kg	2	N.D.
Cadmium (Cd)				2	N.D.
Mercury (Hg)				2	N.D.
Hexavalent chromium (Cr6+)	Refer to IEC 62321-7-1:2015	UV-VIS	μg/cm ²	0.10	Negative
Monobromobiphenyl			mg/kg	5	N.D.
Dibromobiphenyl	Refer to IEC 62321-6:2015			5	N.D.
Tribromobiphenyl		GC-MS		5	N.D.
Tetrabromobiphenyl				5	N.D.
Pentabromobiphenyl				5	N.D.
Hexabromobiphenyl				5	N.D.
Heptabromobiphenyl				5	N.D.
Octabromobiphenyl				5	N.D.
Nonabromobiphenyl				5	N.D.
Decabromobiphenyl				5	N.D.
The above-mentioned total of (PBBs)	-	-	-	1	N.D.
Monobromodiphenyl ether		GC-MS	mg/kg	5	N.D.
Dibromodiphenyl ether				5	N.D.
Tribromodiphenyl ether				5	N.D.
Tetrabromodiphenyl ether				5	N.D.
Pentabromodiphenyl ether	Refer to			5	N.D.
Hexabromodiphenyl ether	IEC 62321-6:2015			5	N.D.
Heptabromodiphenyl ether				5	N.D.
Octabromodiphenyl ether				5	N.D.
Nonabromodiphenyl ether				5	N.D.
Decabromodiphenyl ether				5	N.D.
The above-mentioned total of (PBDEs)	-	-	-	-	N.D.



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*Description of test part: SILVER COLORED METAL SHEET/Nickel (Ni)					
Test Item(s)	Method	Instrument	Unit	MDL	Result
Antimony (Sb)	Refer to	ICP-OES	mg/kg	5	N.D.
Beryllium (Be)	EPA 3052: 1996			5	N.D.
Fluorine (F)	Refer to EN 14582: 2016	IC		30	N.D.
Chlorine (CI)				30	N.D.
Bromine (Br)				30	N.D.
lodine (I)				30	N.D.
Perfluorooctanoic Acid (PFOA)	Refer to - DIN CEN/TS 15968:2010	LC/MS/MS		0.01	N.D.
Perfluorooctane sulphonate (PFOS)				0.01	N.D.
HBCDD	Refer to IEC 62321:2008	GC-MS	mg/kg	10	N.D.
DEHP	Refer to IEC 62321-8:2017	GC-MS	mg/kg	50	N.D.
DBP				50	N.D.
ВВР				50	N.D.
DIBP				50	N.D.

INTEGRATED SERVICE TECHNOLOGY

Integrated Service Technology Inc.

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Note:

- 1. MDL = Method Detection Limit.
- 2. mg/kg = ppm.
- 3. N.D. = Not Detected. (The result is below the MDL.)
- 4. Negative= Undetectable.
- 5. ICP-OES = Inductively Coupled Plasma-Optical Emission Spectrometer.
- 6. UV-VIS = Ultraviolet-Visible Spectrophotometer.
- 7. GC-MS = Gas Chromatograph-Mass Spectrometer.
- 8. "-"Show that there is not specification value.



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2.2 PHOTO OF SAMPLE

Sample NO.	Description of test part	Photo
-	SILVER COLORED METAL SHEET/Nickel (Ni)	

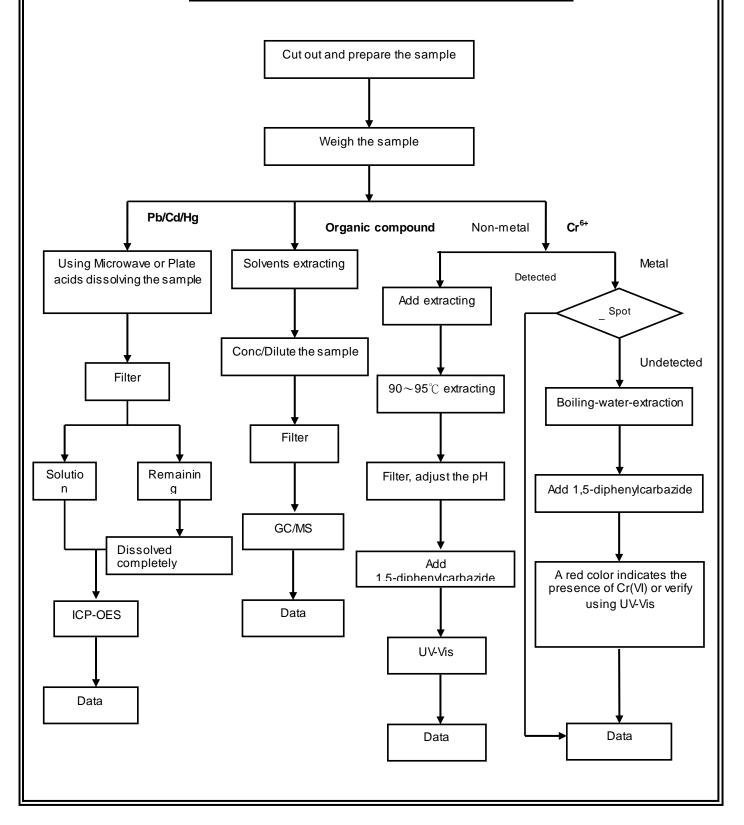


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2.3 MEASUREMENT FLOW CHART

Measurement Flowchart of Lead (Pb)/ Cadmium (Cd)/ Mercury (Hg)/ Hexavalent chromium (Cr⁶⁺⁾/ PBBs/PBDEs





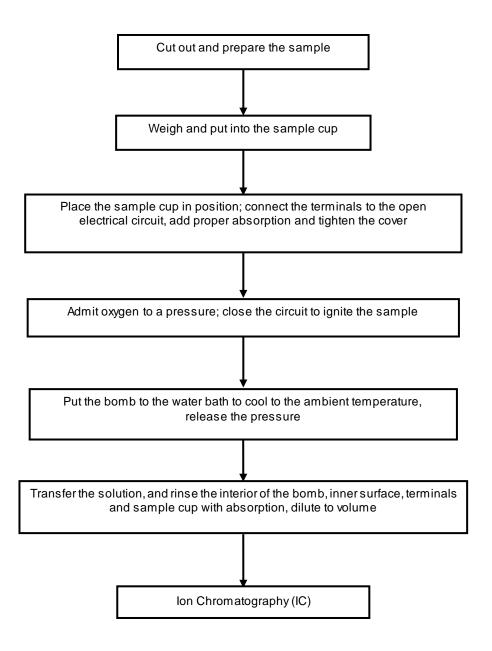
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Measurement Flowchart of Halogen



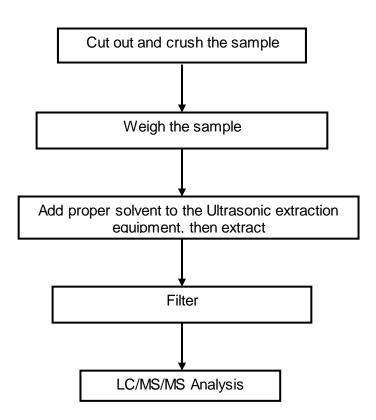


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<u>Measurement Flowchart of</u> <u>Perfluorooctane sulphonate(PFOS)/Perfluorooctanoic Acid (PFOA)</u>





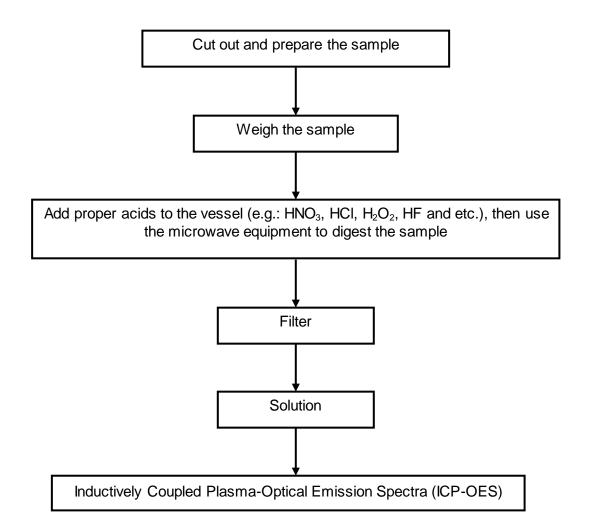
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Measurement Flowchart of Antimony(Sb)/ Beryllium(Be)



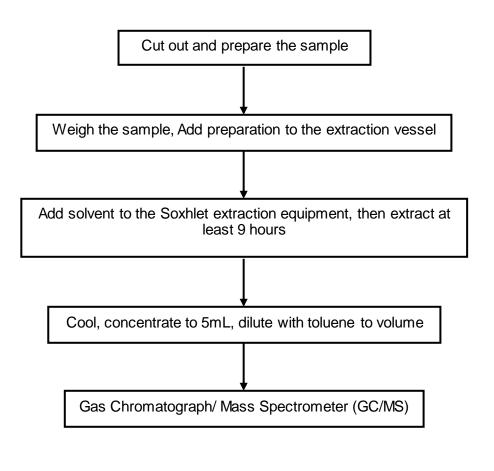


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Measurement Flowchart of Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α –HBCDD, β-HBCDD, γ-HBCDD) (α –HBCDD, β-HBCDD, γ-HBCDD))/ Bis (2-ethylhexyl) ortho-phthalate(DEHP)/

<u>Benzyl-n-butyl ortho-phthalate(BBP)/</u>
<u>Di-n-butyl ortho-phthalate (DBP)/ Di-iso-butyl ortho-phthalate(DIBP)</u>



-----End of Report-----