

Test Report

No. : CE/2019/20741

Date : 2019/02/18

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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

The following samples was/were submitted and identified by/on behalf of the applicant as :

Sample Description : NIPPON COPPER WIRE
Style/Item No. : COPPER WIRE(EX1p)
Sample Receiving Date : 2019/02/11
Testing Period : 2019/02/11 to 2019/02/18

Test Requested :

- (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).
- (2) Please refer to next pages for the other item(s).

Test Result(s) : Please refer to following pages.



Troy Chang, Manager - Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Test Result(s)

PART NAME No.1 : SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER)

Test Item(s)	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg		2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+AMD1:2017 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)(#2)	µg/cm ²	With reference to IEC 62321-7-1 (2015) and performed by UV-VIS.	0.10	n.d.
Sum of PBBs	mg/kg	With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	n.d.
Monobromobiphenyl	mg/kg		5	n.d.
Dibromobiphenyl	mg/kg		5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.
Octabromobiphenyl	mg/kg		5	n.d.
Nonabromobiphenyl	mg/kg		5	n.d.
Decabromobiphenyl	mg/kg		5	n.d.
Sum of PBDEs	mg/kg		-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg		5	n.d.
Tribromodiphenyl ether	mg/kg		5	n.d.
Tetrabromodiphenyl ether	mg/kg		5	n.d.
Pentabromodiphenyl ether	mg/kg		5	n.d.
Hexabromodiphenyl ether	mg/kg		5	n.d.
Heptabromodiphenyl ether	mg/kg		5	n.d.
Octabromodiphenyl ether	mg/kg		5	n.d.
Nonabromodiphenyl ether	mg/kg	5	n.d.	
Decabromodiphenyl ether	mg/kg	5	n.d.	

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158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Test Item(s)	Unit	Method	MDL	Result
				No.1
Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.	0.5	n.d.
Polychlorinated Naphthalene (PCNs)	mg/kg		5	n.d.
Polychlorinated Terphenyls (PCTs)	mg/kg		0.5	n.d.
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	mg/kg		100	n.d.
Tributyl Tin (TBT)	mg/kg	With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.	0.03	n.d.
Triphenyl Tin (TphT)	mg/kg		0.03	n.d.
Dibutyl Tin (DBT)	mg/kg		0.03	n.d.
Diocetyl Tin (DOT)	mg/kg		0.03	n.d.
Bis(tributyltin)oxide (TBTO) (CAS No.: 56-35-9)	mg/kg	With reference to ISO 17353 (2004). Analysis was performed by GC/FPD. Calculated from the result of Tributyl Tin (TBT).	0.03 (▲)	n.d.
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582 (2016). Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.
Antimony (Sb)	mg/kg	With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n.d.
Beryllium (Be)	mg/kg	With reference to US EPA 3050B (1996). Analysis was performed by ICP-AES.	2	n.d.
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n.d.
PFOA (CAS No.: 335-67-1)	mg/kg	With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n.d.

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Test Item(s)	Unit	Method	MDL	Result
				No.1
PVC	**	Analysis was performed by FTIR and FLAME Test.	-	Negative
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.
DNPP (Di-n-pentyl phthalate) (CAS No.: 131-18-0)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.
DIHP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	mg/kg	With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n.d.
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n.d.

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158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Test Item(s)	Unit	Method	MDL	Result
				No.1
Arsenic (As)	mg/kg	With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n.d.
Red phosphorus	**	Analysis was performed by Pyrolyzer-GC/MS.	-	Negative

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected = less than MDL
4. " - " = Not Regulated
5. ** = Qualitative analysis (No Unit)
6. Negative = Undetectable / Positive = Detectable
7. (#2) =
 - 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 n.d. (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.
8. (▲) : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	A	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.024

PFOS Reference Information : POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².

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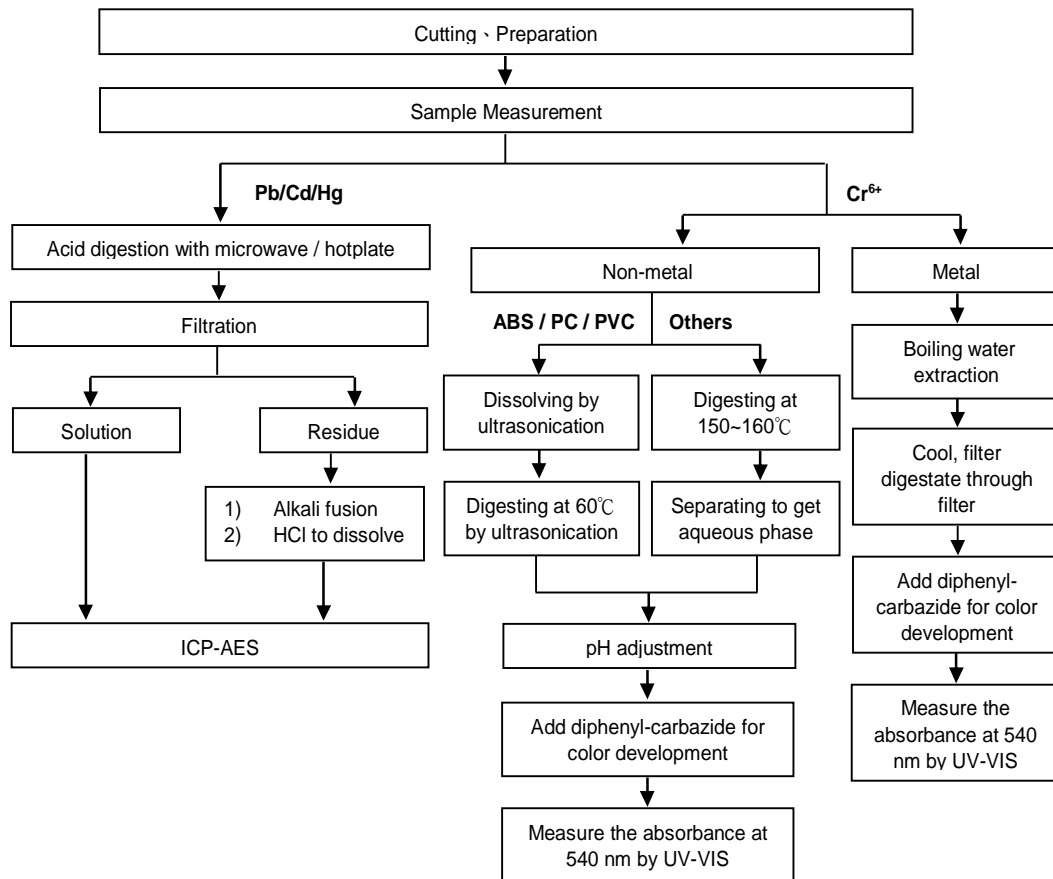
NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- Technician : Rita Chen
- Supervisor: Troy Chang

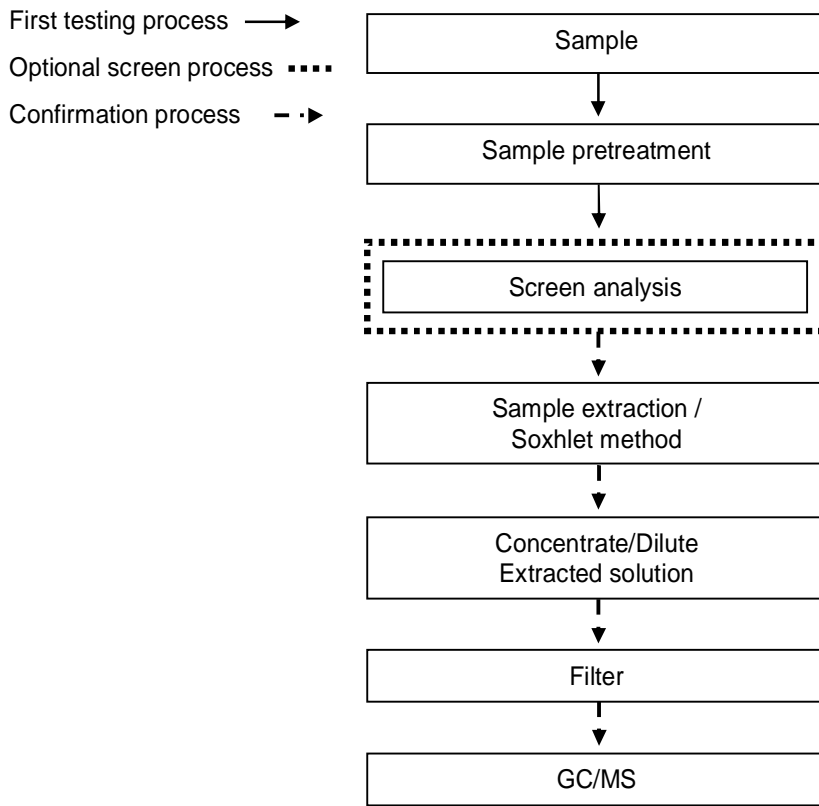


NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart – PBB / PBDE

- Technician : Yaling Tu
- Supervisor: Troy Chang



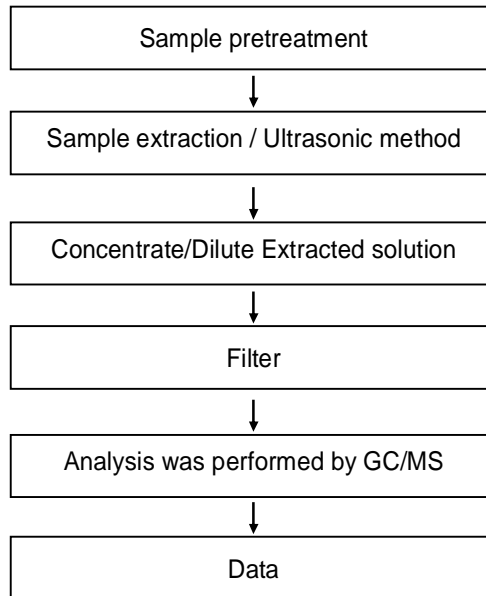
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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart - PCBs

- Technician: Yaling Tu
- Supervisor: Troy Chang



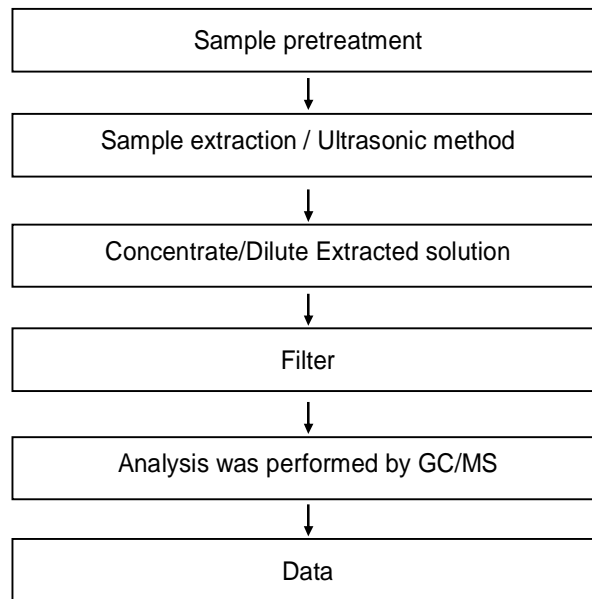
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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart - PCNs

- Technician: Yaling Tu
- Supervisor: Troy Chang



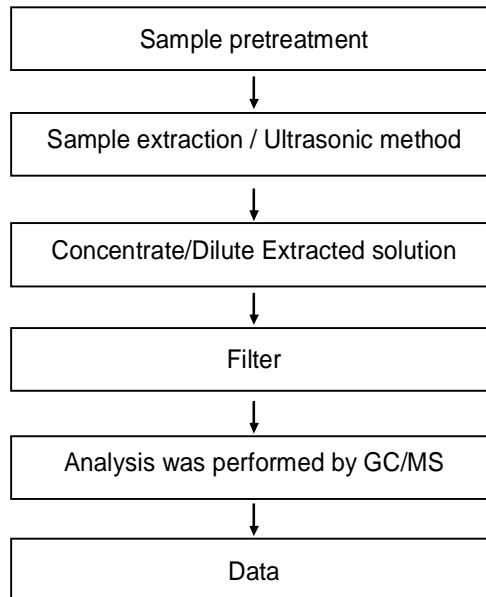
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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart - PCTs

- Technician: Barry Tseng
- Supervisor: Troy Chang

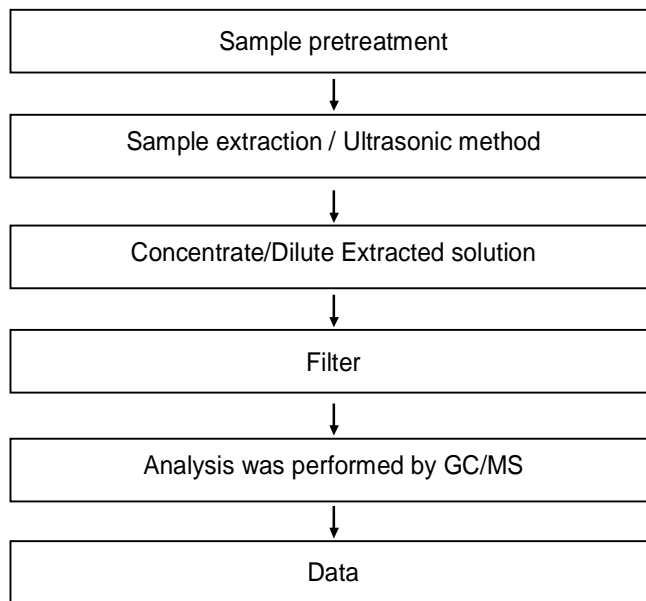


NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart - Chlorinated Paraffins

- Technician: Yaling Tu
- Supervisor: Troy Chang



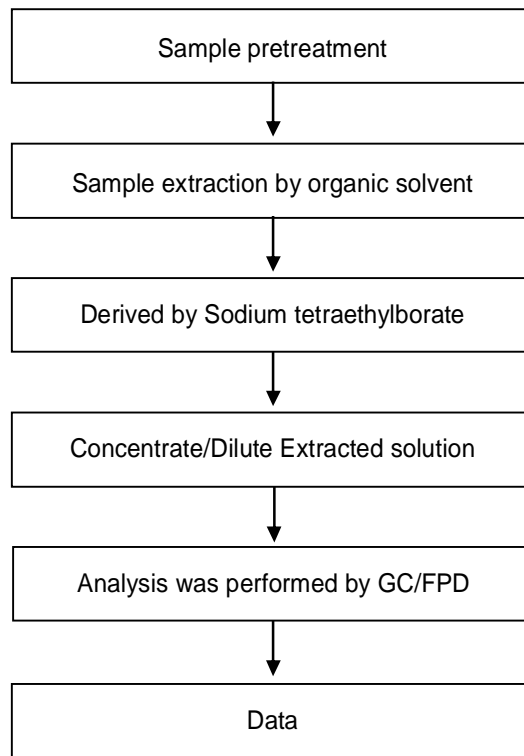
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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart - Organic-Tin

- Technician: Yaling Tu
- Supervisor: Troy Chang



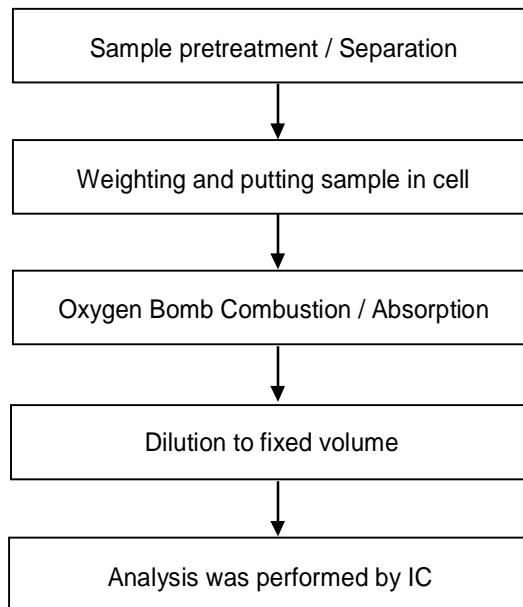
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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart - Halogen

- Technician: Rita Chen
- Supervisor: Troy Chang



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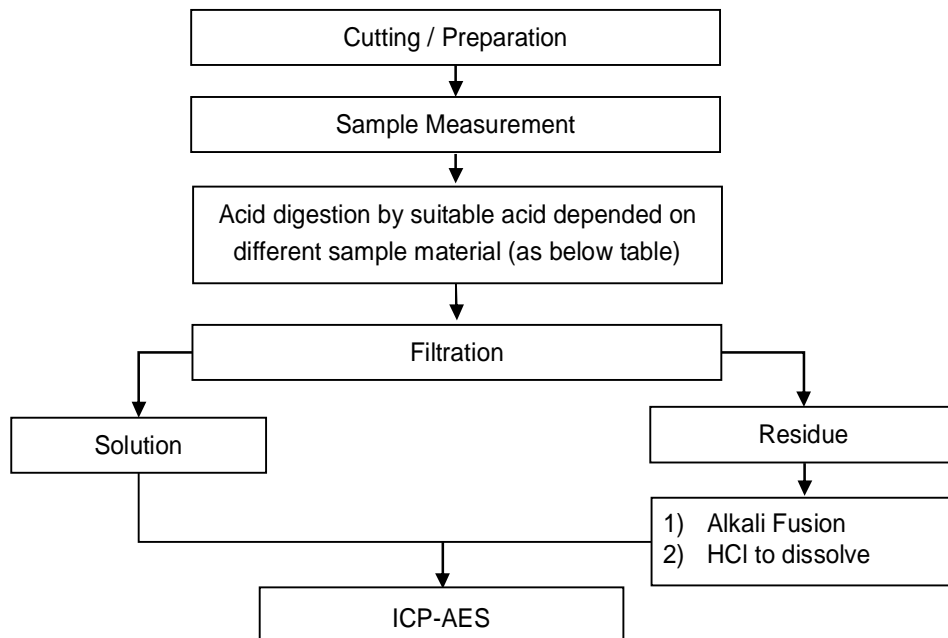
NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

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

- Technician: Rita Chen
- Supervisor: Troy Chang

Flow Chart of digestion for the elements analysis performed by ICP-AES



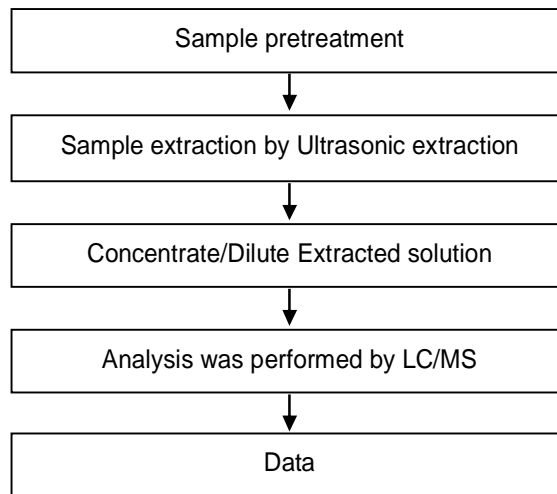
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Added appropriate reagent to total digestion

NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart - PFOA/PFOS

- Technician: Yaling Tu
- Supervisor: Troy Chang



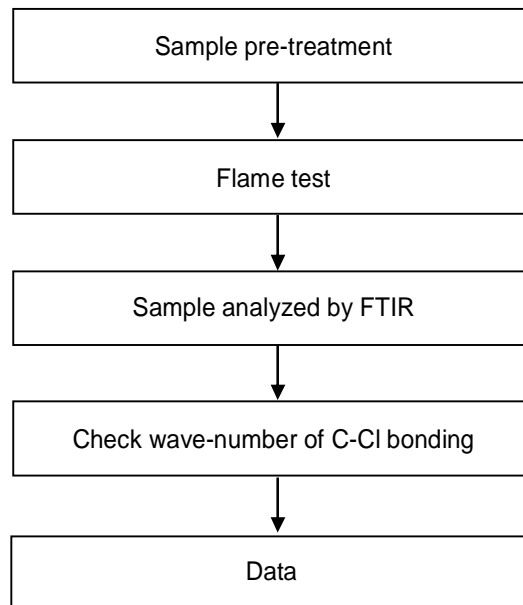
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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analysis flow chart - PVC

- Technician: Yaling Tu
- Supervisor: Troy Chang



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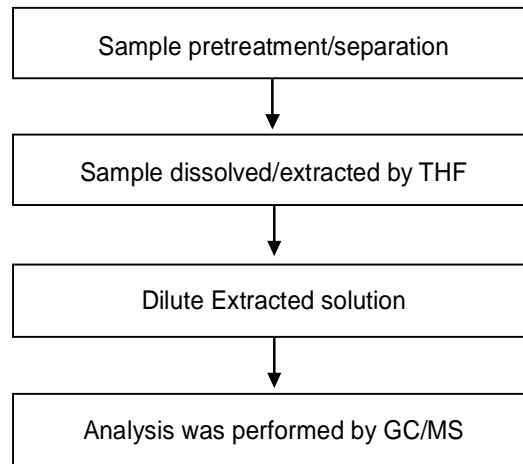
NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart - Phthalate

- Technician: Yaling Tu
- Supervisor: Troy Chang

【Test method: IEC 62321-8】



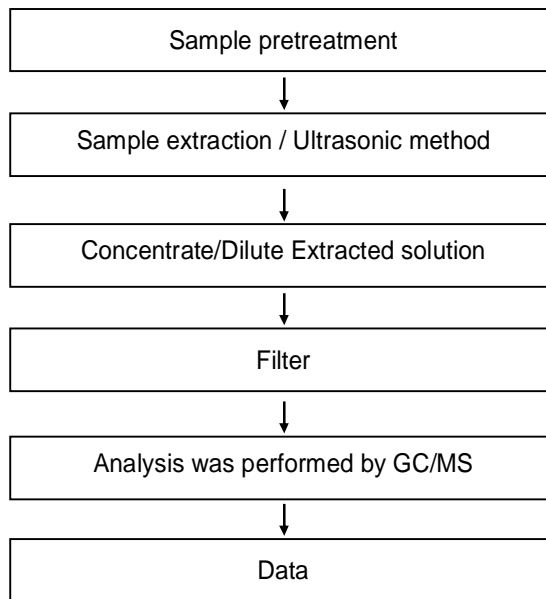
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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart - HBCDD

- Technician: Yaling Tu
- Supervisor: Troy Chang



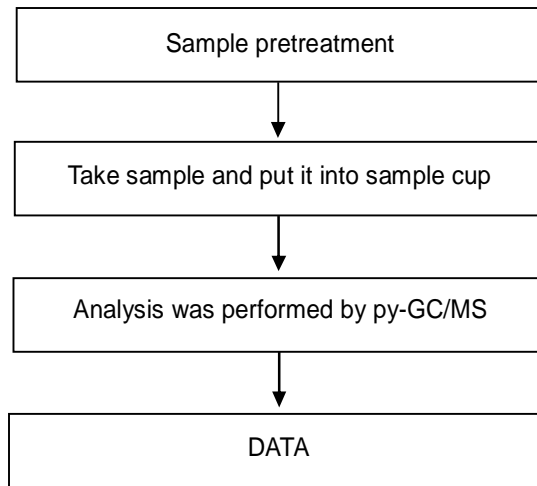
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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

Analytical flow chart - Red phosphorus

- Technician: Yaling Tu
- Supervisor: Troy Chang



Test Report

No. : CE/2019/20741

Date : 2019/02/18

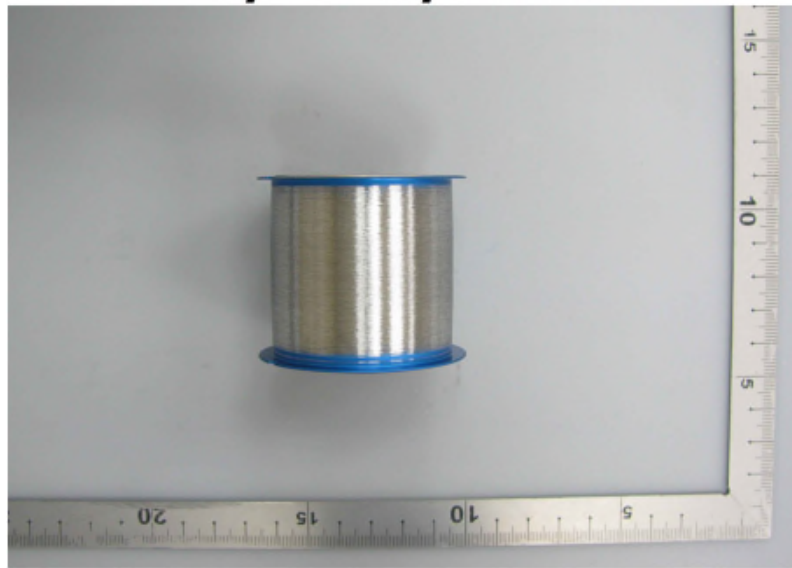
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NIPPON MICROMETAL CORPORATION

158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

* The tested sample / part is marked by an arrow if it's shown on the photo. *

CE/2019/20741



** End of Report **