Test Report  No. : CE/2018/22891         Date : 2018/02/26

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 :

<table>
<thead>
<tr>
<th>Sample Description</th>
<th>NIPPON COPPER WIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Style/Item No.</td>
<td>COPPER WIRE(EX1p)</td>
</tr>
<tr>
<td>Sample Receiving Date</td>
<td>2018/02/12</td>
</tr>
<tr>
<td>Testing Period</td>
<td>2018/02/12 TO 2018/02/26</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>Unit</th>
<th>Method</th>
<th>MDL</th>
<th>Result No.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-5 (2013) and performed by ICP-AES.</td>
<td>2</td>
<td>n.d.</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-4 (2013) and performed by ICP-AES.</td>
<td>2</td>
<td>n.d.</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-7-1 (2015) and performed by UV-VIS.</td>
<td>0.10</td>
<td>n.d.</td>
</tr>
<tr>
<td>Hexavalent Chromium Cr(VI)(#2)</td>
<td>µg/cm²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sum of PBBs</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td></td>
<td>n.d.</td>
</tr>
<tr>
<td>Monobromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Dibromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Tribromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Tetrabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Pentabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Hexabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Heptabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Octabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Nonabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Decabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Sum of PBDEs</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td></td>
<td>n.d.</td>
</tr>
<tr>
<td>Monobromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Dibromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Tribromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Tetrabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Pentabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Hexabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Heptabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Octabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Nonabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Decabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d.</td>
</tr>
</tbody>
</table>
## Test Item(s)

<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>Unit</th>
<th>Method</th>
<th>MDL</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)</td>
<td>mg/kg</td>
<td>With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.</td>
<td>0.5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Polychlorinated Naphthalene (PCNs)</td>
<td>mg/kg</td>
<td>With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Polychlorinated Terphenyls (PCTs)</td>
<td>mg/kg</td>
<td>With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.</td>
<td>0.5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)</td>
<td>mg/kg</td>
<td>With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.</td>
<td>100</td>
<td>n.d.</td>
</tr>
<tr>
<td>Tributyl Tin (TBT)</td>
<td>mg/kg</td>
<td></td>
<td>0.03</td>
<td>n.d.</td>
</tr>
<tr>
<td>Triphenyl Tin (TphT)</td>
<td>mg/kg</td>
<td></td>
<td>0.03</td>
<td>n.d.</td>
</tr>
<tr>
<td>Bis(tributyltin)oxide (TBTO)**</td>
<td>mg/kg</td>
<td>With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.</td>
<td>-</td>
<td>n.d.</td>
</tr>
<tr>
<td>Dibutyl Tin (DBT)</td>
<td>mg/kg</td>
<td></td>
<td>0.03</td>
<td>n.d.</td>
</tr>
<tr>
<td>Dioctyl Tin (DOT)</td>
<td>mg/kg</td>
<td></td>
<td>0.03</td>
<td>n.d.</td>
</tr>
</tbody>
</table>

### Halogen

<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>Unit</th>
<th>Method</th>
<th>MDL</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halogen-Fluorine (F) (CAS No.: 14762-94-8)</td>
<td>mg/kg</td>
<td>With reference to BS EN 14582 (2016). Analysis was performed by IC.</td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>Halogen-Bromine (Br) (CAS No.: 10097-32-2)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>Halogen-Iodine (I) (CAS No.: 14362-44-8)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>Antimony (Sb)</td>
<td>mg/kg</td>
<td>With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.</td>
<td>2</td>
<td>n.d.</td>
</tr>
<tr>
<td>Beryllium (Be)</td>
<td>mg/kg</td>
<td>With reference to US EPA 3050B (1996). Analysis was performed by ICP-AES.</td>
<td>2</td>
<td>n.d.</td>
</tr>
<tr>
<td>Arsenic (As)</td>
<td>mg/kg</td>
<td>With reference to US EPA 3050B (1996). Analysis was performed by ICP-AES.</td>
<td>2</td>
<td>n.d.</td>
</tr>
<tr>
<td>Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)</td>
<td>mg/kg</td>
<td>With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.</td>
<td>10</td>
<td>n.d.</td>
</tr>
<tr>
<td>PFOA (CAS No.: 335-67-1)</td>
<td>mg/kg</td>
<td>With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.</td>
<td>10</td>
<td>n.d.</td>
</tr>
<tr>
<td>Test Item(s)</td>
<td>Unit</td>
<td>Method</td>
<td>MDL</td>
<td>Result</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>------</td>
<td>-------------------------------</td>
<td>------</td>
<td>---------</td>
</tr>
<tr>
<td>PVC</td>
<td></td>
<td>Analysis was performed by FTIR and FLAME Test.</td>
<td>-</td>
<td>Negative</td>
</tr>
<tr>
<td>BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>DBP (Dibutyl phthalate) (CAS No.: 84-74-2)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>DINP (Di-isonyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.</td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>DNPP (Di-n-pentyl phthalate) (CAS No.: 131-18-0)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>DIHP (1,2-Benzene dicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>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))</td>
<td>mg/kg</td>
<td>With reference to IEC 62321 (2008). Analysis was performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>Red phosphorus</td>
<td></td>
<td>Analysis was performed by Pyrolyzer-GC/MS.</td>
<td>-</td>
<td>Negative</td>
</tr>
</tbody>
</table>
Test Report
No. : CE/2018/22891
Date : 2018/02/26

NIPPON MICROMETAL CORPORATION
158-1, SAYAMAGAHARA IRUMA-CITY, SAITAMA 358-0032, JAPAN

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 substance was calculated by the test results of Tributyl Tin. The MDL was evaluated for Tributyl Tin.
10. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above
    result(s) was/were only given as the informality value.

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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Member of the SGS Group
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: JR Wang
- Supervisor: Troy Chang

1. Cutting - Preparation

2. Sample Measurement

- Pb/Cd/Hg
  - Acid digestion with microwave / hotplate
  - Filtration
  - Solution
    - 1) Alkali fusion
    - 2) HCl to dissolve
  - Residue

- Cr₄⁺
  - Non-metal
  - Metal
  - ABS / PC / PVC
  - Others
  - Boiling water extraction

- Dissolving by ultrasonication
  - Digesting at 60°C by ultrasonication
  - Separating to get aqueous phase
  - Digesting at 150~160°C
  - pH adjustment
  - Add diphenyl-carbazide for color development
  - Measure the absorbance at 540 nm by UV-VIS

- ICP-AES

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Member of the SGS Group
Analytical flow chart – PBB / PBDE

First testing process
Optional screen process
Confirmation process

Sample
Sample pretreatment
Screen analysis
Sample extraction / Soxhlet method
Concentrate/Dilute
Extracted solution
Filter
GC/MS

Technician : Yaling Tu
Supervisor: Troy Chang
Analytical flow chart - PCBs

- Technician: Yaling Tu
- Supervisor: Troy Chang

1. Sample pretreatment
2. Sample extraction / Ultrasonic method
3. Concentrate/Dilute Extracted solution
4. Filter
5. Analysis was performed by GC/MS
6. Data
Test Report
No.: CE/2018/22891
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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

Sample pretreatment

Sample extraction / Ultrasonic method

Concentrate/Dilute Extracted solution

Filter

Analysis was performed by GC/MS

Data

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Analytical flow chart - PCTs

- Technician: Barry Tseng
- Supervisor: Troy Chang

Sample pretreatment

Sample extraction / Ultrasonic method

Concentrate/Dilute Extracted solution

Filter

Analysis was performed by GC/MS

Data

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
Analytical flow chart - Chlorinated Paraffins

- Technician: Yaling Tu
- Supervisor: Troy Chang

1. Sample pretreatment
2. Sample extraction / Ultrasonic method
3. Concentrate/Dilute Extracted solution
4. Filter
5. Analysis was performed by GC/MS
6. Data
Analytical flow chart - Organic-Tin

- Technician: Yaling Tu
- Supervisor: Troy Chang

Sample pretreatment

Sample extraction by organic solvent

Derived by Sodium tetraethylborate

Concentrate/Dilute Extracted solution

Analysis was performed by GC/FPD

Data
Analytical flow chart - Halogen

- Technician: Rita Chen
- Supervisor: Troy Chang

Sample pretreatment / Separation

Weighting and putting sample in cell

Oxygen Bomb Combustion / Absorption

Dilution to fixed volume

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

- Technician: JR Wang
- Supervisor: Troy Chang

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

```
<table>
<thead>
<tr>
<th>Cutting / Preparation</th>
<th>Sample Measurement</th>
<th>Acid digestion by suitable acid depended on different sample material (as below table)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Filteration</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Residue</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1) Alkali Fusion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) HCl to dissolve</td>
</tr>
<tr>
<td>Steel, copper, aluminum, solder</td>
<td>Aqua regia, HNO₃, HCl, HF, H₂O₂</td>
<td></td>
</tr>
<tr>
<td>Glass</td>
<td>HNO₃, HF</td>
<td></td>
</tr>
<tr>
<td>Gold, platinum, palladium, ceramic</td>
<td>Aqua regia</td>
<td></td>
</tr>
<tr>
<td>Silver</td>
<td>HNO₃</td>
<td></td>
</tr>
<tr>
<td>Plastic</td>
<td>H₂SO₄, H₂O₂, HNO₃, HCl</td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>Added appropriate reagent to total digestion</td>
<td></td>
</tr>
</tbody>
</table>
```

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

- Technician: Yaling Tu
- Supervisor: Troy Chang

1. Sample pretreatment
2. Sample extraction by Ultrasonic extraction (Reference method: US EPA 3550C)
3. Concentrate/Dilute Extracted solution
4. Analysis was performed by LC/MS
5. Data
Analysis flow chart - PVC

- Technician: Yaling Tu
- Supervisor: Troy Chang

Sample pre-treatment → Flame test → Sample analyzed by FTIR → Check wave-number of C-Cl bonding → Data
Analytical flow chart - Phthalate

- Technician: Andy Hsu
- Supervisor: Troy Chang

【Test method: IEC 62321-8】

Sample pretreatment/separation

Sample dissolved/extracted by THF

Dilute Extracted solution

Analysis was performed by GC/MS
Analytical flow chart - HBCDD

- Technician: Yaling Tu
- Supervisor: Troy Chang

1. Sample pretreatment
2. Sample extraction / Ultrasonic method
3. Concentrate/Dilute Extracted solution
4. Filter
5. Analysis was performed by GC/MS
6. Data

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Member of the SGS Group
Analytical flow chart - Red phosphorus

- Technician: Yaling Tu
- Supervisor: Troy Chang

Sample pretreatment

Take sample and put it into sample cup

Analysis was performed by py-GC/MS

DATA

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Test Report

No. : CE/2018/22891
Date : 2018/02/26

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/2018/22891

** End of Report **