



TEST REPORT

Report No.: HT40123147903

Date: Feb 03, 2023

Applicant: CÔNG TY TNHH NHÔM VIỆT Ý

Address: Ô CN11, cụm công nghiệp Nguyên Khê , Xã Nguyên Khê, Huyện Đông Anh, Thành phố Hà Nội, Việt Nam

ATTN: --

Sample Description:

(The submitted sample said to be)

Material Name: Billet 6063 T6
 Material No.: CNG 346C
 Sample Size: 1 PCS
 Receiving Date: Jan 31, 2023
 Completed Date: Feb 02, 2023

Test Requested:

- Lead,Mercury, Cadmium, Hexavalent chromium, 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) by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Conclusion(s)

Pass

Authorized by:

CTIC VIETNAM CO., LTD



Duke Du

Technical Manager





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Test Methods:

Chemical test:

| Test Item(s) | Test Method | Measuring Instrument | RL |
|---|--------------------|----------------------|------------------------------|
| Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES | 5 mg/kg |
| Lead (Pb) | IEC 62321-5:2013 | ICP-OES | 5 mg/kg |
| Mercury (Hg) | IEC 62321-4:2013 | ICP-OES | 5 mg/kg |
| Metal Hexavalent Chromium (Cr ⁶⁺) | IEC 62321-7-1:2015 | UV-Vis | 0.1 µg/cm ² (LOQ) |
| PBBs/PBDEs | IEC 62321-6:2015 | GC-MS | 20 mg/kg |
| DBP/BBP/DEHP/DIBP | IEC 62321-8:2017 | GC-MS | 50mg/kg |

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Test Results:

The Test Results of Chemical Method:

| Elements | Result (mg/kg) | RL(mg/kg) | Limit (mg/kg) |
|-------------------------|----------------|-----------|---------------|
| | Component No. | | |
| | 1 | | |
| Sum of PBBs | N.D. | 20 | 1000 |
| Monobromobiphenyl | N.D. | 20 | -- |
| Dibromobiphenyl | N.D. | 20 | -- |
| Tribromobiphenyl | N.D. | 20 | -- |
| Tetrabromobiphenyl | N.D. | 20 | -- |
| Pentabromobiphenyl | N.D. | 20 | -- |
| Hexabromobiphenyl | N.D. | 20 | -- |
| Heptabromobiphenyl | N.D. | 20 | -- |
| Octabromobiphenyl | N.D. | 20 | -- |
| Nonabromobiphenyl | N.D. | 20 | -- |
| Decabromobiphenyl | N.D. | 20 | -- |
| Sum of PBDEs | N.D. | 20 | 1000 |
| Monobromodiphenylether | N.D. | 20 | -- |
| Dibromodiphenylether | N.D. | 20 | -- |
| Tribromodiphenylether | N.D. | 20 | -- |
| Tetrabromodiphenylether | N.D. | 20 | -- |
| Pentabromodiphenylether | N.D. | 20 | -- |
| Hexabromodiphenylether | N.D. | 20 | -- |
| Heptabromodiphenylether | N.D. | 20 | -- |
| Octabromodiphenylether | N.D. | 20 | -- |
| Nonabromodiphenylether | N.D. | 20 | -- |
| Decabromodiphenylether | N.D. | 20 | -- |

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| Elements | Result (mg/kg) | RL(mg/kg) | Limit (mg/kg) |
|--|----------------|-----------|---------------|
| | Component No. | | |
| | 1 | | |
| Dibutyl phthalate (DBP) (CAS No.84-74-2) | N.D. | 50 | 1000 |
| Butyl benzyl phthalate (BBP) (CAS No.85-68-7) | N.D. | 50 | 1000 |
| Bis (2-ethylhexyl) phthalate (DEHP) (CAS No.117-81-7) | N.D. | 50 | 1000 |
| Diisobutyl phthalates (DIBP) (CAS No.84-69-5) | N.D. | 50 | 1000 |

- Note:**
1. mg/kg = milligram per kilogram(ppm).
 2. N.D. = Not Detected (< RL).
 3. "--" = Not regulated.
 4. RL = Reporting Limit.

| Elements | Result (mg/kg) | RL | Limit (mg/kg) |
|--|----------------|------------------------------|---------------|
| | Component No. | | |
| | 1 | | |
| Cadmium (Cd) | N.D. | 5 mg/kg | 100 |
| Lead (Pb) | 15 | 5 mg/kg | 1000 |
| Mercury (Hg) | N.D. | 5 mg/kg | 1000 |
| Metal Hexavalent Chromium (Cr ⁶⁺) | Negative | 0.1 µg/cm ² (LOQ) | -- |

- Note:**
1. mg/kg = milligram per kilogram(ppm).
 2. N.D. = Not Detected (<RLor LOQ).
 3. RL = Reporting Limit.
 4. LOQ = Limit of quantification.
 5. Less than 0.10 µg/cm², the sample is negative for Cr⁶⁺ - The Cr⁶⁺ concentration is below the limit of quantification.
 6. Between 0.10 µg/cm² and 0.13 µg/cm²,The result is considered to be inconclusive.
 7. Greater than 0.13 µg/cm²,the sample is positive for Cr⁶⁺ based on visual comparison only.



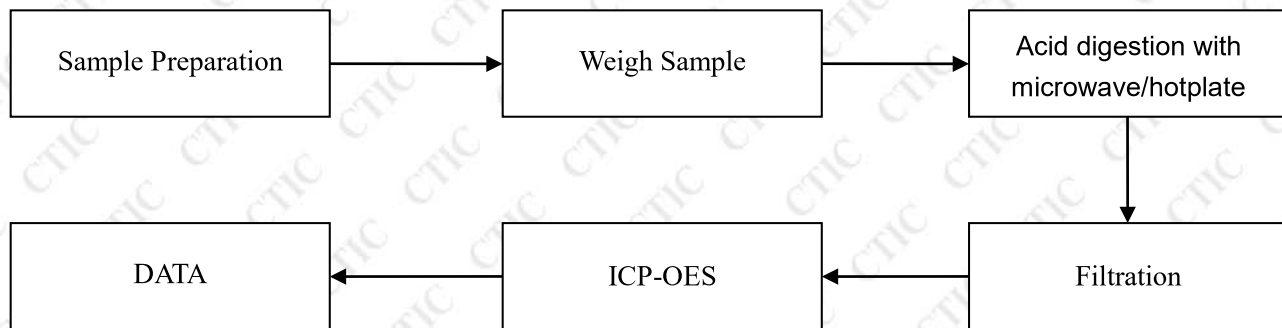


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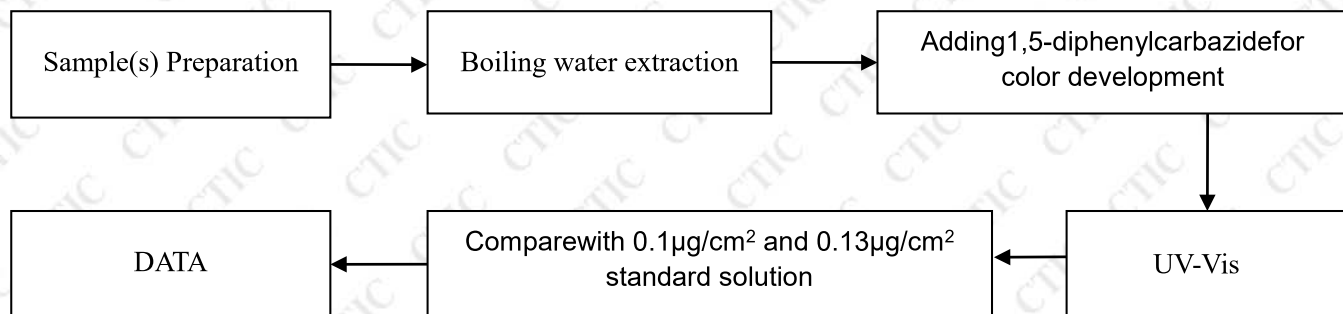
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Test Process Flow:

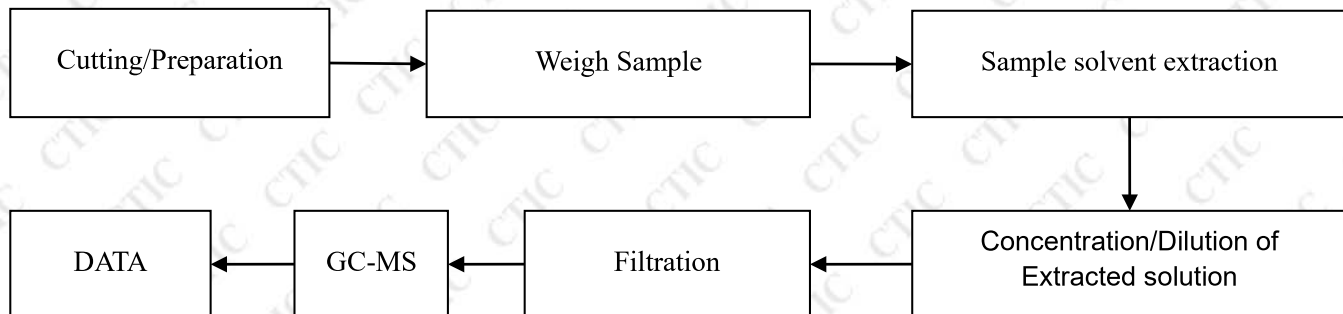
1. Lead, Cadmium, Mercury



2. Hexavalent Chromium(Metal)



3. PBBs & PBDEs



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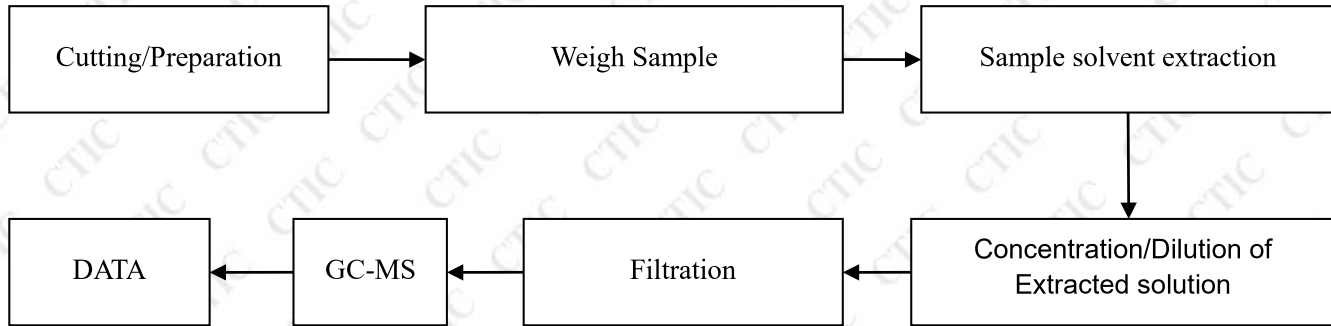




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4. Phthalates



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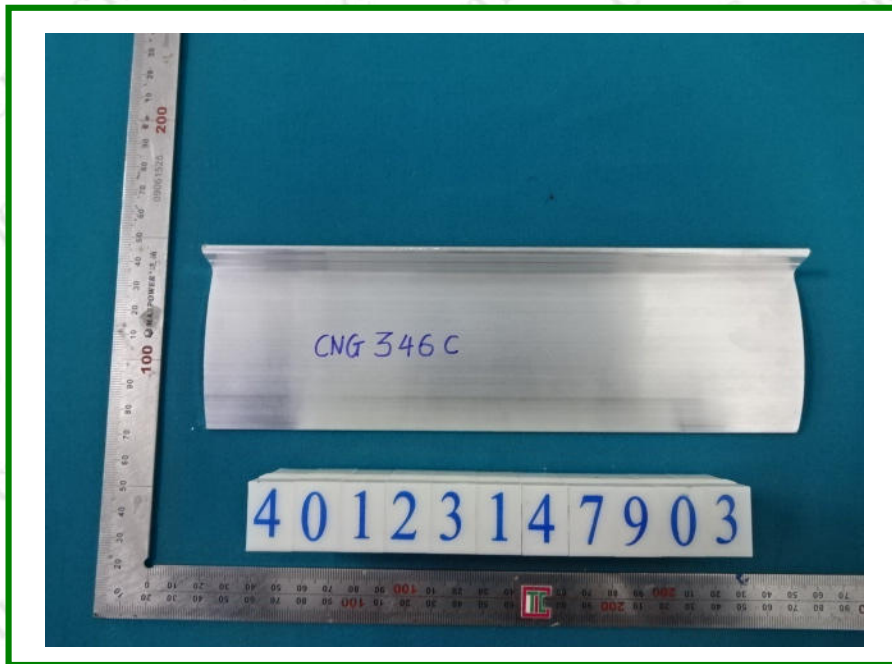
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Test Component List

The following components apply only to the samples submitted for testing

| Component No. | Description | Location |
|---------------|---------------|----------|
| 1 | Silvery metal | Billet |

Photo(s) of Sample(s):



End of Report

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