

## Test Report

No. 2340509-CH33

Date: March 22, 2011

Page 1 of 4

Samtec Inc.  
520 Park East Blvd  
New Albany, IN 47151  
United States

Attn: Dick Bowyer

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

**High Copper Alloy**  
**Color: Copper**  
**Sample/Style #: Sample Labeled: High Copper Alloy**

Sample Received Date: 3/9/2011

Testing Period: 3/10/2011 – 3/18/2011

Test Requested : Please refer to the result summary.

Test Method &amp; Results : Please refer to next page(s).

Result Summary :

| Test Requested   | Conclusion       |
|--|------------------|
| European Directive 2002/95/EC (RoHS) and its subsequent amendments | See test results |

Signed for and on behalf of SGS North America



Cyrus Chan  
Laboratory Manager, Chemistry Laboratory

Prepared By:



Veronica Marrero  
Report Writer, Chemistry Laboratory

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**1. Test results by chemical method:**
Cadmium, Lead, Mercury and Hexavalent Chromium content

Method : With reference to IEC 62321:2008. Lead, Cadmium and Mercury were analyzed by Inductively Coupled Argon Plasma Spectrometry and Chromium (VI) was analyzed by UV-Visible Spectroscopy.

| Test Item  | Result (mg/kg)  |  | Detection Limit (mg/kg) | Permissible Limit (mg/kg) |
|--|---|--|-------------------------|---------------------------|
|  | 1   |  |                         |                           |
| Cadmium (Cd)   | ND  |  | 20                      | 100                       |
| Lead (Pb)  | ND  |  | 20                      | 1000                      |
| Mercury (Hg)   | ND  |  | 20                      | 1000                      |
| Hexavalent Chromium by spot test (Cr(VI))                | Negative; bubbles observed – boiling water test performed |  | #                       | #                         |
| Hexavalent Chromium by boiling water extraction (Cr(VI)) | Negative for presence of Hexavalent Chromium              |  | #                       | #                         |
| <b>Comment</b>   | PASS  |  | --                      | --                        |

Sample Description:

 1. **High Copper Alloy**

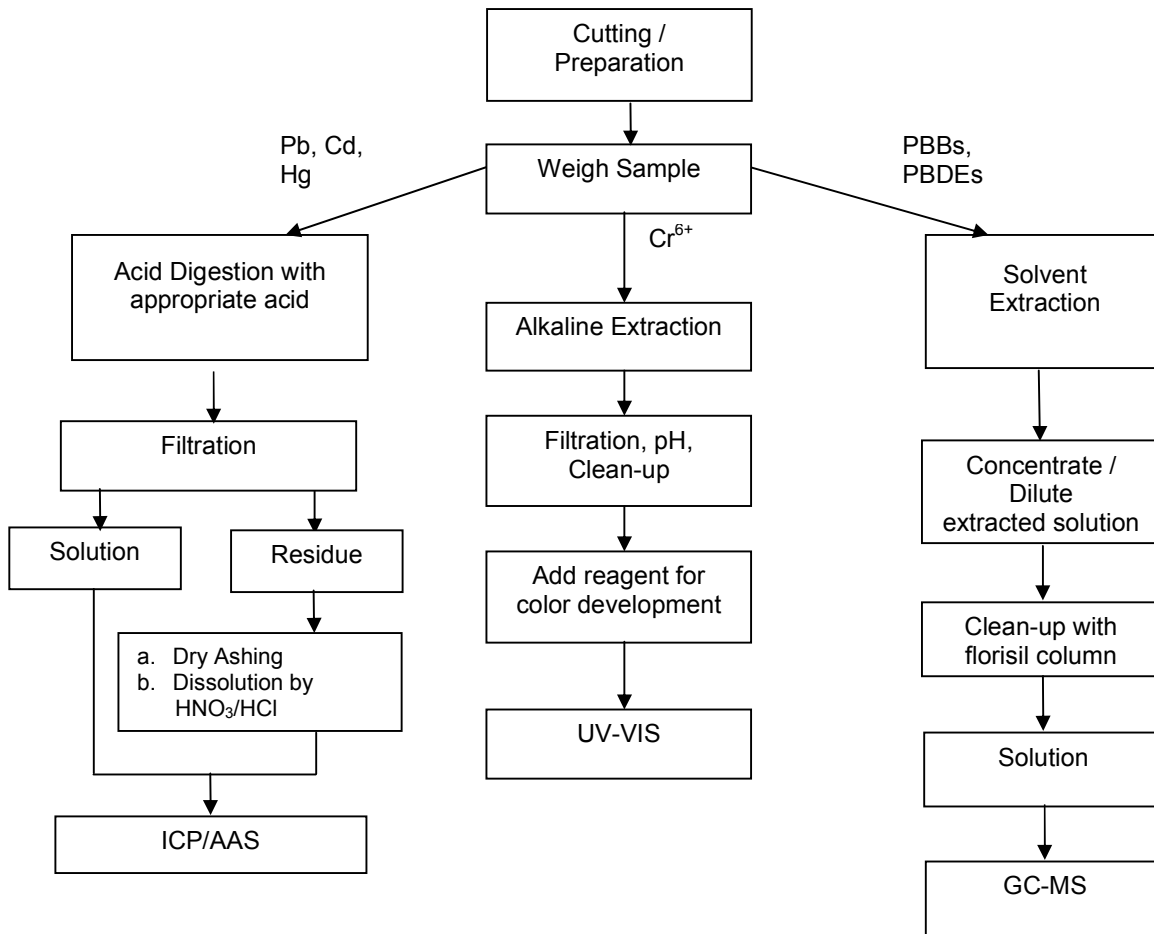
## Note :

1. ND = Not Detected = denoted less than reporting limit

Remark : 1. # = Negative means the absence of CrVI on the tested areas; Positive means the presence of CrVI on the tested areas. The detected CrVI concentration in the boiling-water-extraction solution is equal to or greater than 0.02 mg/kg with 50cm<sup>2</sup> sample surface area.

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**Flowchart:**



- Note : 1. For Cr(VI), spot test is adopted for metal sample.  
 2. The Cd, Pb and Hg contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.

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**Sample Photo:**



SGS authenticates the photo on the original report only  
 \*\*\* End of Report \*\*\*

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