


**Test Report No. F690501/LF-CTSAYAA09-15860**
**Issued Date: June 03, 2009**

The following merchandise was submitted and identified by the client as :

**Product Name** : ~~SGS~~ Wafer  
**SGS File No.** : AYAA09-15860  
**Received Date** : May 29, 2009  
**Test Performing Date** : June 01, 2009  
**Test Performed** : SGS Testing Korea tested the sample(s) selected by applicant with following results  
**Test Results** : For further details, please refer to following page(s)  
**Comments** : By the applicant's specific request, the sampling and testing was performed only for the part indicated in the photo without disassembly.

**SGS Testing Korea Co. Ltd.**

Pluto Kim  
 Cindy Park  
 Jinee Song/ Testing Person

**Jeff Jang / Chemical Lab Mgr**

This document is issued by the Company subject to its General Conditions of Service printed on the back and as referred to in member of [www.sgs.com](http://www.sgs.com) and for electronic format documents subject to Terms and Conditions for Electronic Documents at [www.sgs.com](http://www.sgs.com).  
 Although a check is made for the reliability of issuing, identification and certification, the Company does not warrant the accuracy of the information provided. Any holder of this document is notified that information contained herein is for reference only and should not be used as a basis for any decision. The Company's sole responsibility is to the Client and the Company does not accept any liability for any loss or damage caused by the use of this information. The Company's liability is limited to the amount of the fee paid for the service. The Company's liability is limited to the amount of the fee paid for the service. The Company's liability is limited to the amount of the fee paid for the service.

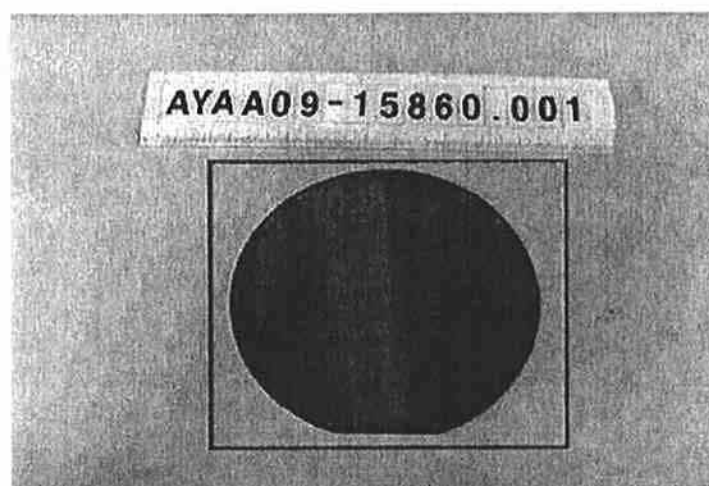
**SGS****Test Report No.** F690501/LF-CTSAYAA09-15860

Issued Date: June 03, 2009

**Sample No.** : AYAA09-15860.001**Sample Description** : Wafer**Item No./Part No.** : N/A**Comments** : Material is silicon.**Heavy Metals**

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008, ICP	0.5	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008, ICP	5	N.D.
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008, ICP	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	With reference to IEC 62321:2008, UV-VIS	1	N.D.

Picture of Sample as Received:

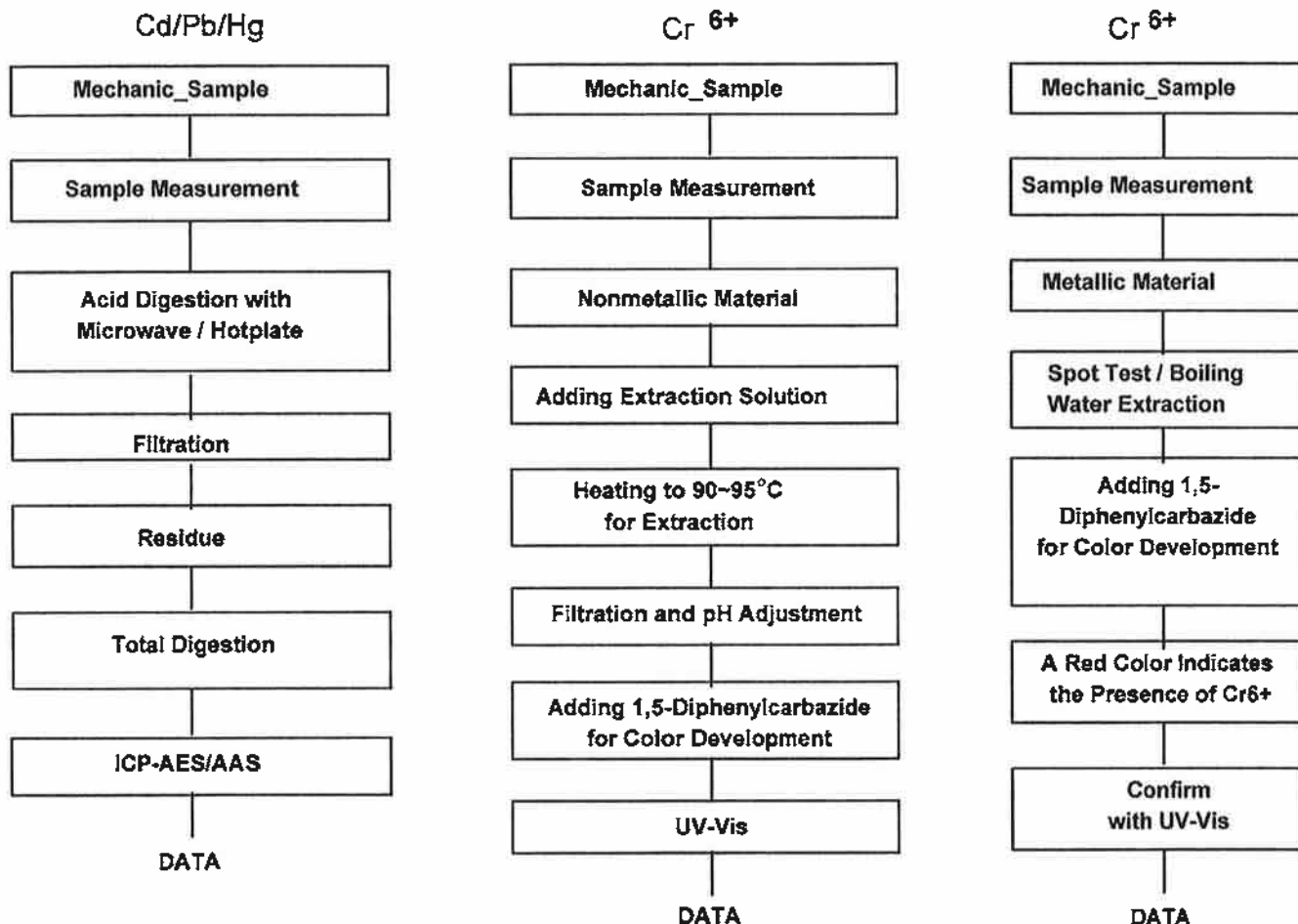


- NOTE:
- (1) N.D. = Not detected.(<MDL)
  - (2) mg/kg = ppm
  - (3) MDL = Method Detection Limit
  - (4) - = No regulation
  - (5) \*\* = Qualitative analysis (No Unit)
  - (6) \* = Boiling-water-extraction:  
 Negative = Absence of CrVI coating  
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

This document is issued by the Company subject to its General Conditions of Service (which are not available at [www.sgs.com](http://www.sgs.com) and [www.sgs.com/sgs](http://www.sgs.com/sgs)) and its respective terms, conditions, exclusions, limitations and disclaimers for further documents at [www.sgs.com/sgs](http://www.sgs.com/sgs). The Company is not responsible for any damage or loss of data or information caused by the use of this document. The Company is not responsible for any damage or loss of data or information caused by the use of this document. The Company is not responsible for any damage or loss of data or information caused by the use of this document.


**Test Report No.** F690501/LF-CTSAYAA09-15880

**Issued Date:** June 03, 2009

**Testing Flow Chart for RoHS: Cd/Pb/Hg/Cr<sup>6+</sup> Testing**


The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.

Operator Dami Yeom

Section Chief Jeff Jang

\*\*\* End \*\*\*

- NOTE:
- (1) N.D. = Not detected. (<MDL)
  - (2) mg/kg = ppm
  - (3) MDL = Method Detection Limit
  - (4) - = No regulation
  - (5) \*\* = Qualitative analysis (No Unit)
  - (6) \* = Boiling-water-extraction:  
 Negative = Absence of CrVI coating  
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

This document is owned by the Company subject to its General Conditions of Service printed on every report. It is intended for internal use only. Any disclosure of this document is strictly prohibited. Any violation of this document is subject to legal action. This document is confidential and its use is restricted to the internal use of the Company. Any unauthorized alteration, forgery or falsification of the content of this document is strictly prohibited. This document is the property of the Company and it shall remain so even if it is transferred to another person. The Company is not responsible for any loss or damage to the original or copies of this document. The Company is not responsible for any loss or damage to the original or copies of this document. The Company is not responsible for any loss or damage to the original or copies of this document.