



Test Report No. F690101/LF-CTSAYAA14-30201R1

Issued Date : 2014. 07. 03

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SAMWHA ELECTRONICS CO., LTD.
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Yongin-si, Gyeonggi-do
Korea

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

SGS File No. : AYAA14-30201R1
Product Name : Mg-Zn Ferrite Core for Clamp Filter
Item No./Part No. : N/A
Client Reference Data : SY08C RU10X20X5, SY08C RU13X23X7, SY08C RU16X14X9, SY08C RU16X28X9, SY08C RU17X28X11, SY08C RU18X28X10, SY08C RU20X29X12, SY08C RU26X29X13, SY08C RU36X32X19
Received Date : 2014. 06. 18
Test Period : 2014. 06. 19 to 2014. 07. 03
Report Comments : By the applicant's request, item No.s/part No.s & client reference information are stated/added on report.
Supercede/Referral : The test report supercedes previous report number, "F690101/LF-CTSAYAA14-30201" issued by SGS Korea Co., Ltd.
Test Results : For further details, please refer to following page(s)

SGS Korea Co., Ltd.

Jeff Jang / Chemical Lab Mgr

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Sample No. : AYAA14-30201R1.001
Sample Description : Mg-Zn Ferrite Core for Clamp Filter
Item No./Part No. : N/A
Materials : SY08C

Heavy Metals

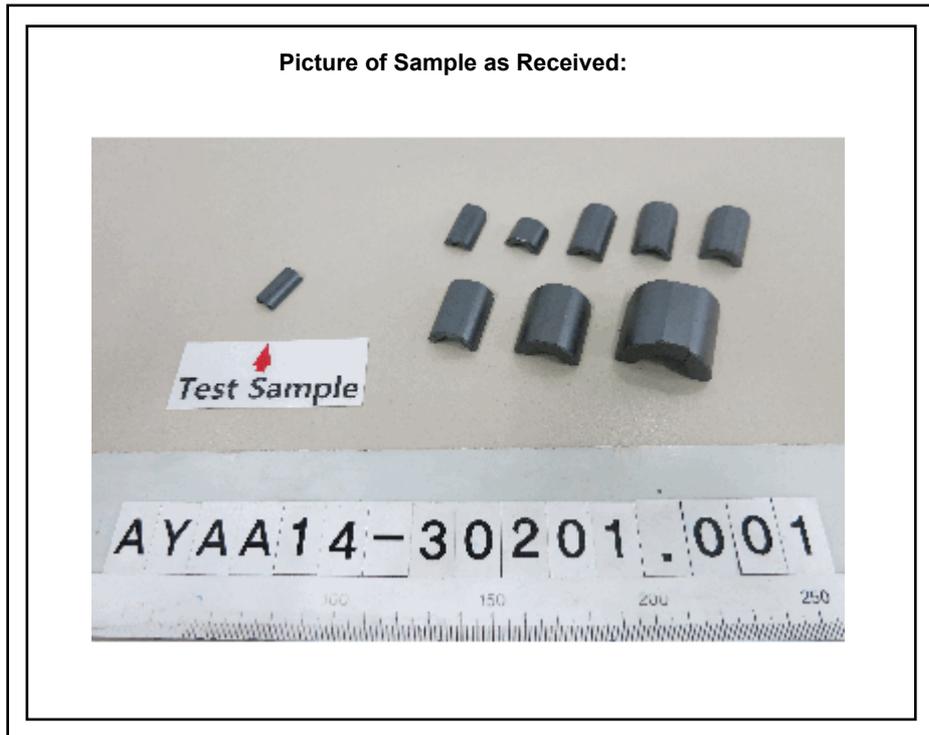
Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cadmium by ICP-OES)	0.5	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Lead by ICP-OES)	5	N.D.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Mercury by ICP-OES)	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	With reference to IEC 62321:2008 (Determination of Hexavalent Chromium by spot test/Colorimetric Method using UV-Vis)	1	N.D.

Halogen Content

Test Items	Unit	Test Method	MDL	Results
Bromine(Br)	mg/kg	BS EN 14582:2007 , IC	30	N.D.
Chlorine(Cl)	mg/kg	BS EN 14582:2007 , IC	30	N.D.

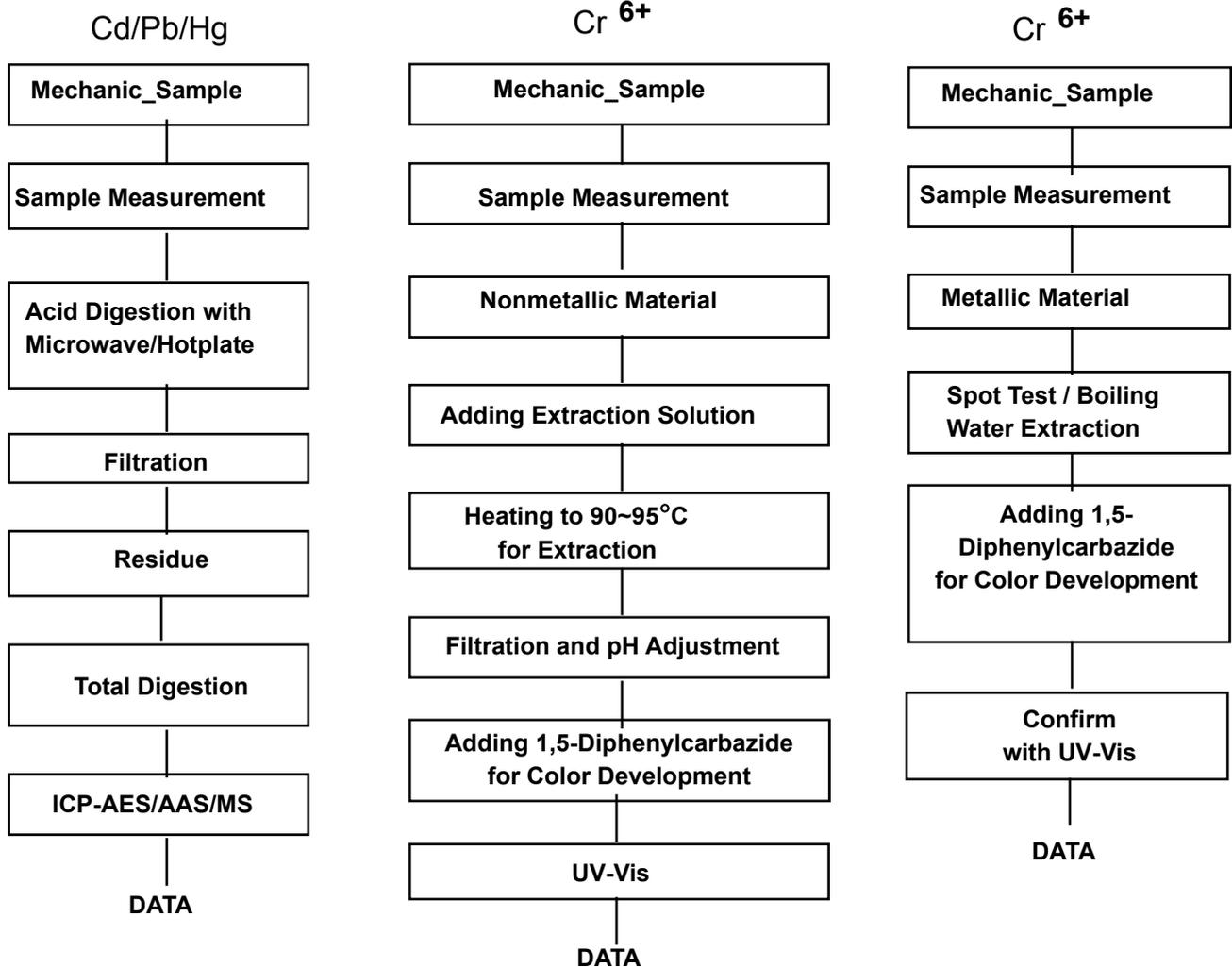
- NOTE:
- (1) N.D. = Not detected.(<MDL)
 - (2) mg/kg = ppm
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) Negative = Undetectable / Positive = Detectable
 - (6) ** = Qualitative analysis (No Unit)
 - (7) * = Boiling-water-extraction:
 - Negative = Absence of CrVI coating
 - Positive = 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.

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Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr⁶⁺ Testing

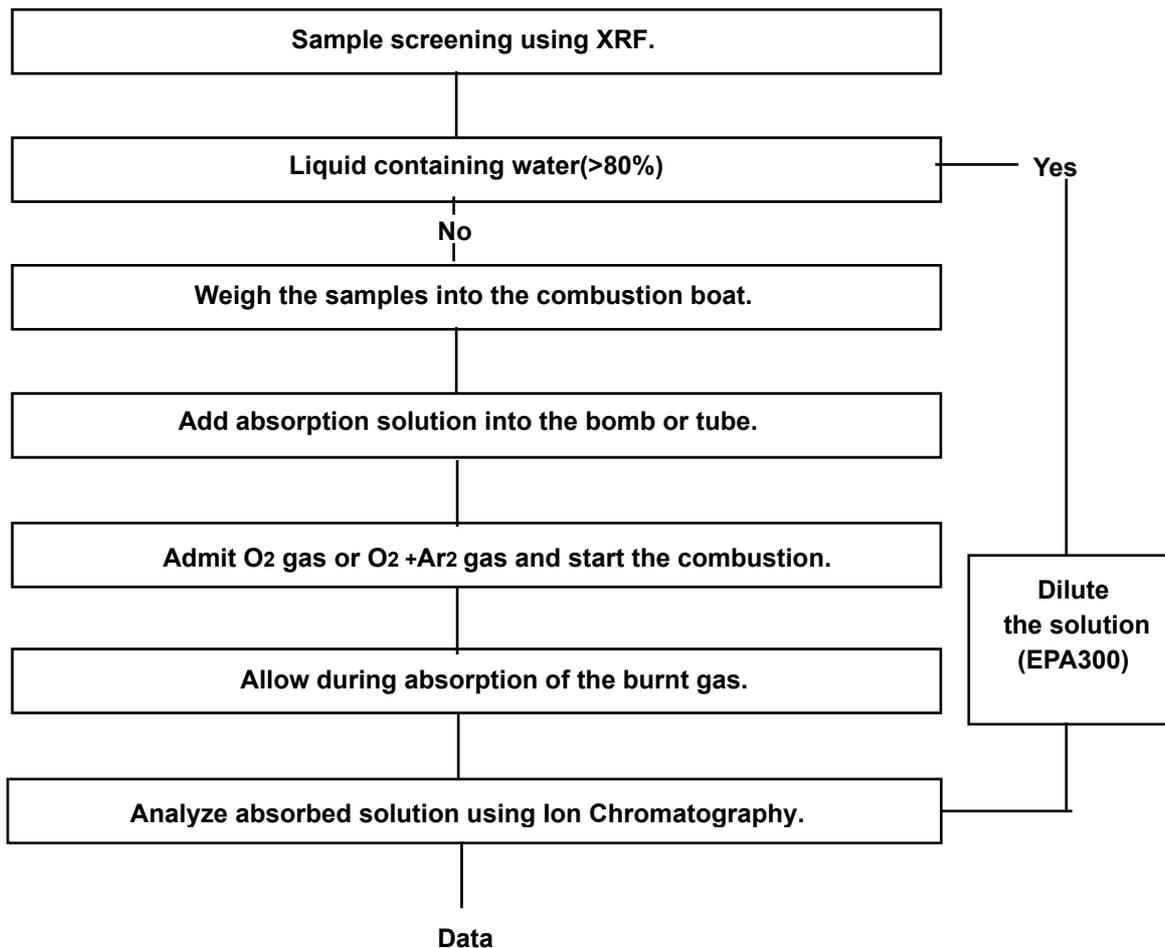


The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.
 Section Chief : Gilsae Yi

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Flow Chart for Halogen Test



*** End of Report ***

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