



Test Report No. F690101/LF-CTSAYGU14-07359

Issued Date : 2014. 10. 14

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POONGSAN CORPORATION

94 Sanam-ro, Onsan-eup
Ulju, Ulsan
Korea

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

SGS File No. : AYGU14-07359
Product Name : C5210
Item No./Part No. : Phosphor Bronze
Received Date : 2014. 10. 06
Test Period : 2014. 10. 07 to 2014. 10. 14
Conclusion : Based on the performed test on submitted sample(s), the results comply with RoHS Directive 2011/65/EU Annex II(recasting 2002/95/EC) and its subsequent amendment(s).
Test Results : For further details, please refer to following page(s)

SGS Korea Co., Ltd.
/ Gimhae Laboratory

Thomas Hwang / Lab Manager

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SGS Korea Co., Ltd.

204, GBMC, 88 Somang-gil, Juchon-myeon, Gimhae-si, Gyeongnam, Korea 621-842
t +82 (0)55 310 8801 f +82 (0)55 310 8809 <http://www.sgsgroup.kr>



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Sample No. : AYGU14-07359.001
Sample Description : C5210
Item No./Part No. : Phosphor Bronze
Materials : N/A

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	41.0
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013(Determination of Mercury by ICP-OES)	2	N.D.
Hexavalent Chromium (Cr VI) By boiling water extraction*	**	with reference to IEC 62321:2008 (Determination of Hexavalent Chromium by spot test/Colorimetric Method using UV-Vis)	-	Negative

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.

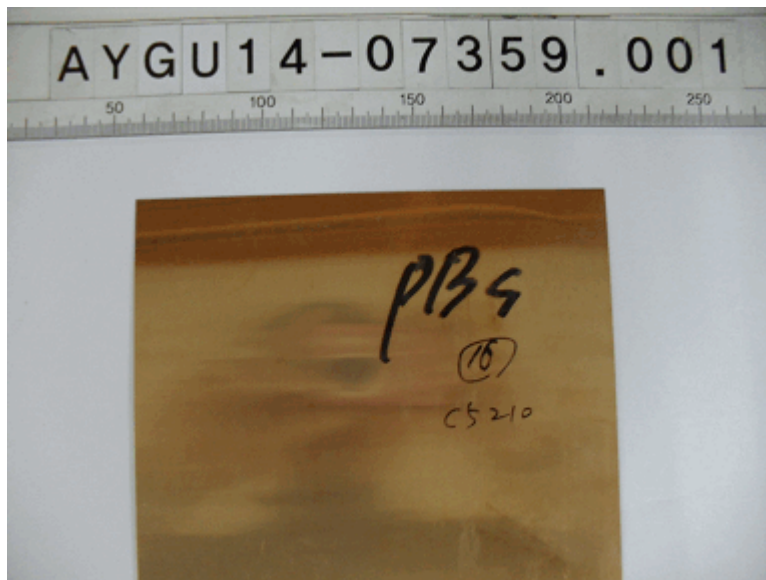
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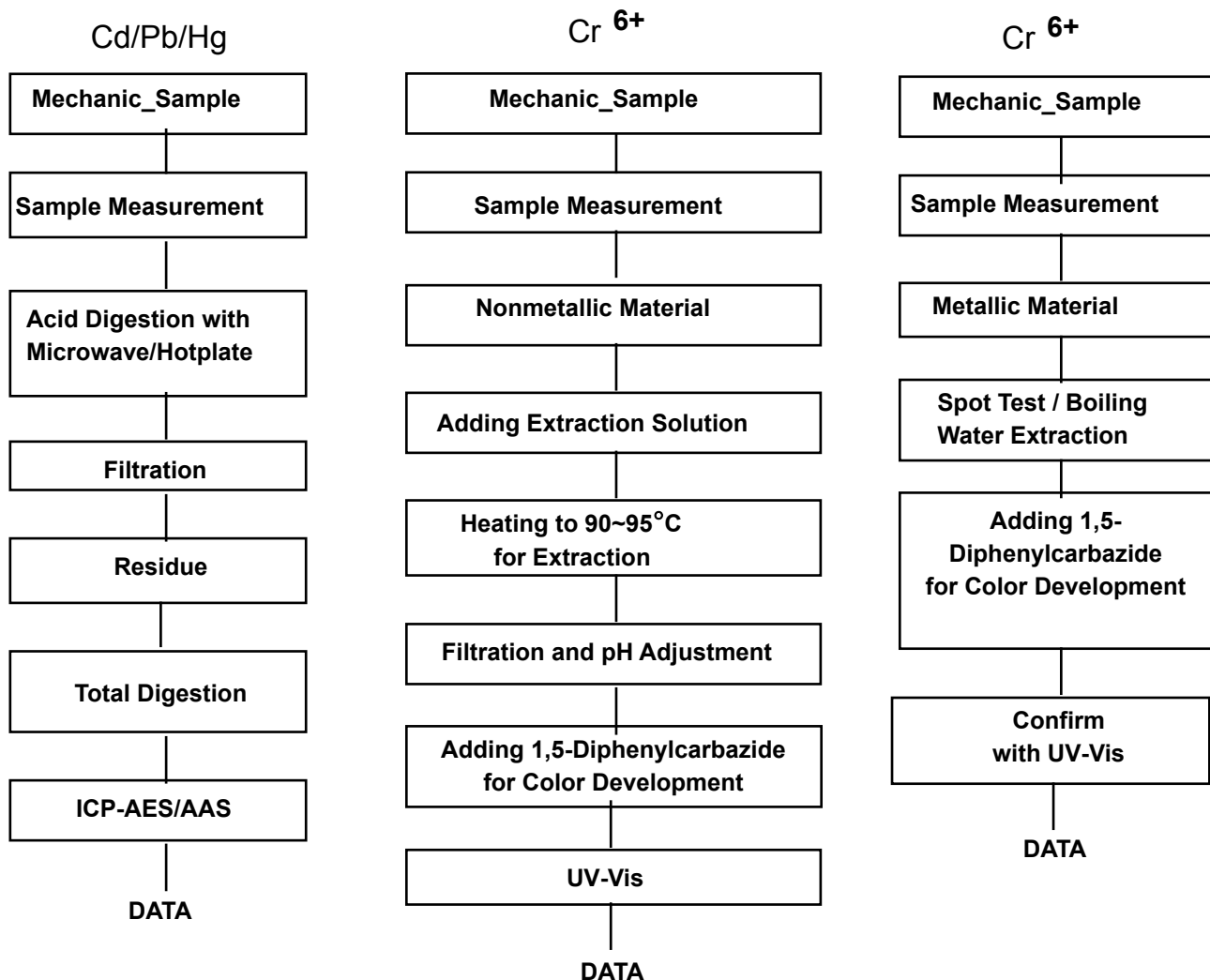
Picture of Sample as Received:



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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 : Sharpless Park

*** End of Report ***