



Test Report No. F690101/LF-CTSAYAA15-29408

Issued Date : 2015. 06. 11

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EXSO CORPORATION CO.,LTD

#20,Yutongdan-ji 1ro
Gangseo-gu,Busan
Korea

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

SGS File No. : AYAA15-29408
Product Name : Pb-Free Solder Bar
Item No./Part No. : EA-27 Pb-Free Bar(Sn99.3/Cu0.7%)
Received Date : 2015. 06. 08
Test Period : 2015. 06. 08 to 2015. 06. 11
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. : AYAA15-29408.001
Sample Description : Pb-Free Solder Bar
Item No./Part No. : EA-27 Pb-Free Bar(Sn99.3/Cu0.7%)
Materials : N/A

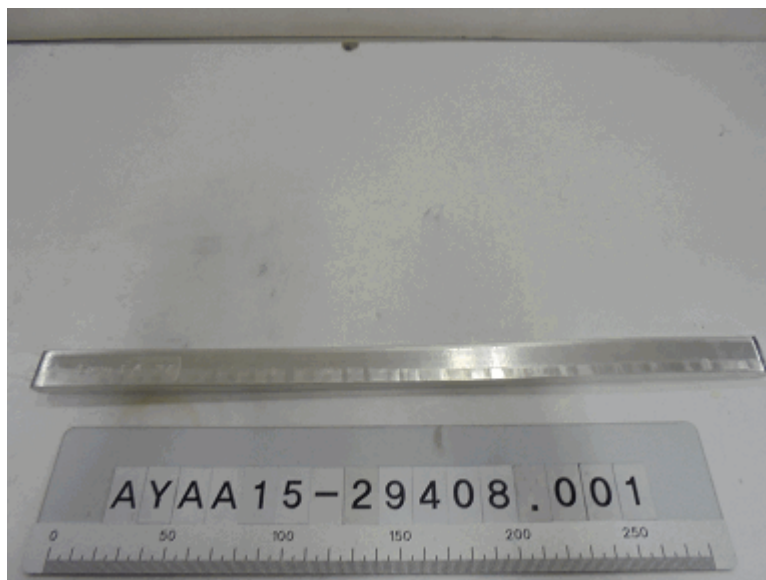
Heavy Metals

Test Items	Unit	Test Method	MDL	Results
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
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	20.2
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Mercury by ICP-OES)	2	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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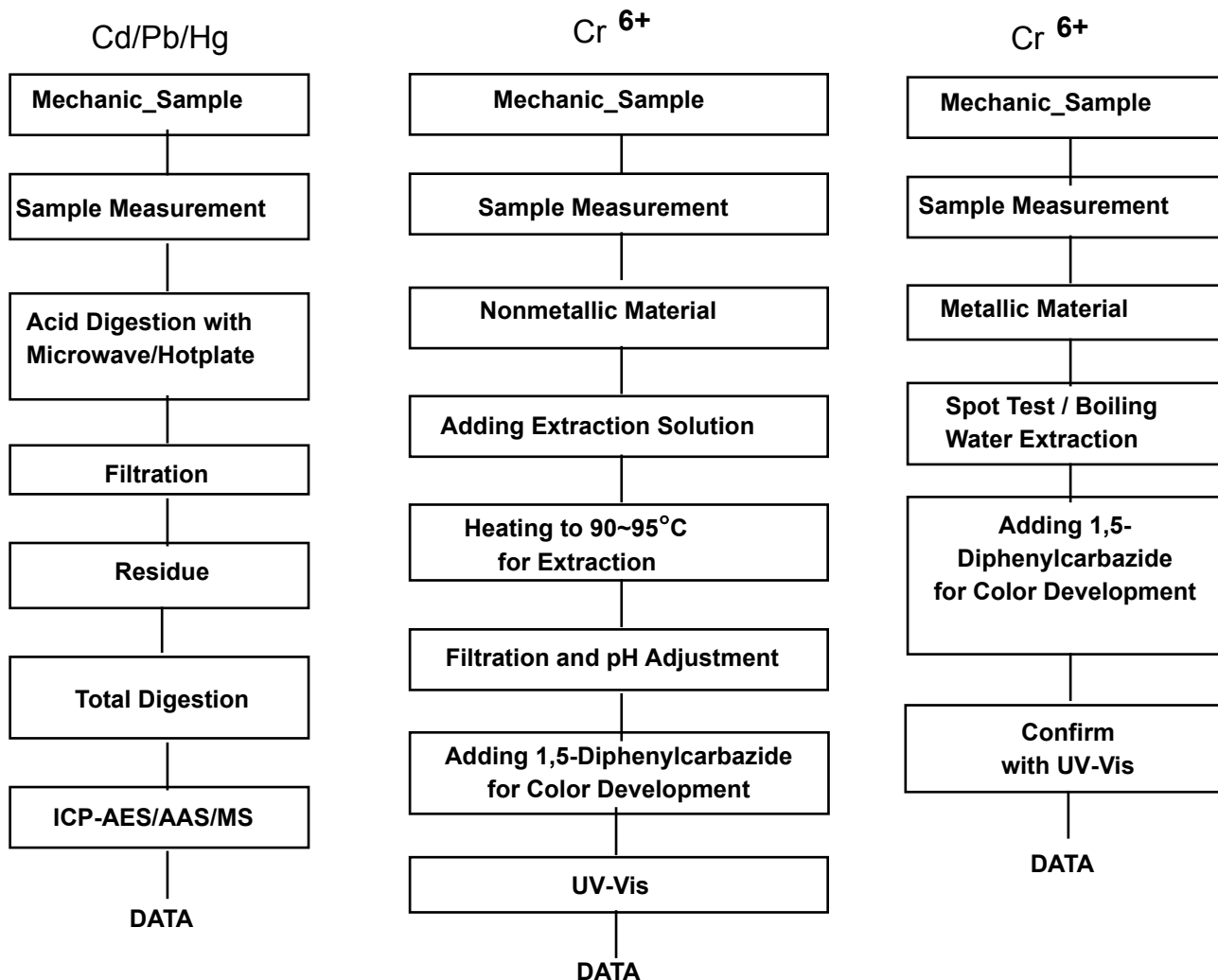
Picture of Sample as Received:



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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 : Gilsae Yi

*** End of Report ***