

Hess Pumice Products, Inc.
100 Hess Drive
Malad City, ID 83252
United States

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

Pumice
Color: White
Sample/Style #: Grade FFFF

Sample Received Date:

1/21/2013

Testing Period:

1/22/2013 – 1/28/2013

Test Requested : Please refer to the result summary.

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

Result Summary :

Test Requested	Comment
1) European Directive 2011/65/EU Annex II (RoHS); recasting 2002/95/EC	PASS

Signed for and on behalf of SGS North America, Inc.



Sandip Ramolia
Chemist, Chemistry Laboratory

Prepared By:



Veronica Marrero
Report Writer, Chemistry Laboratory

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1. European Directive 2011/65/EU Annex II (RoHS); recasting 2002/95/EC:

Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content

Method : With reference to IEC 62321:2008. Lead, Cadmium and Mercury were analyzed by Inductively Coupled Argon Plasma Spectrometry, Chromium (VI) was analyzed by UV-Visible Spectroscopy and PBB, PBDE were analyzed by Gas Chromatography – Mass Spectrometry (GC-MS).

Test Item	Result (mg/kg)		Detection Limit (mg/kg)	Reference Limit (mg/kg)
	1			
Cadmium (Cd)	ND		5	1000
Lead (Pb)	ND		5	1000
Mercury (Hg)	ND		5	1000
Hexavalent Chromium (Cr(VI))	ND*		5	1000
Sum of PBBs	ND		--	1000
Monobromobiphenyl	ND		5	--
Dibromobiphenyl	ND		5	--
Tribromobiphenyl	ND		5	--
Tetrabromobiphenyl	ND		5	--
Pentabromobiphenyl	ND		5	--
Hexabromobiphenyl	ND		5	--
Heptabromobiphenyl	ND		5	--
Octabromobiphenyl	ND		5	--
Nonabromobiphenyl	ND		5	--
Decabromobiphenyl	ND		5	--
Sum of PBDEs	ND		--	1000
Monobromodiphenyl ether	ND		5	--
Dibromodiphenyl ether	ND		5	--
Tribromodiphenyl ether	ND		5	--
Tetrabromodiphenyl ether	ND		5	--
Pentabromodiphenyl ether	ND		5	--
Hexabromodiphenyl ether	ND		5	--
Heptabromodiphenyl ether	ND		5	--
Octabromodiphenyl ether	ND		5	--
Nonabromodiphenyl ether	ND		5	--
Decabromodiphenyl ether	ND		5	--
Comment	PASS		--	--

Sample Description:
1. White Pumice Powdered Material – Grade FFFF

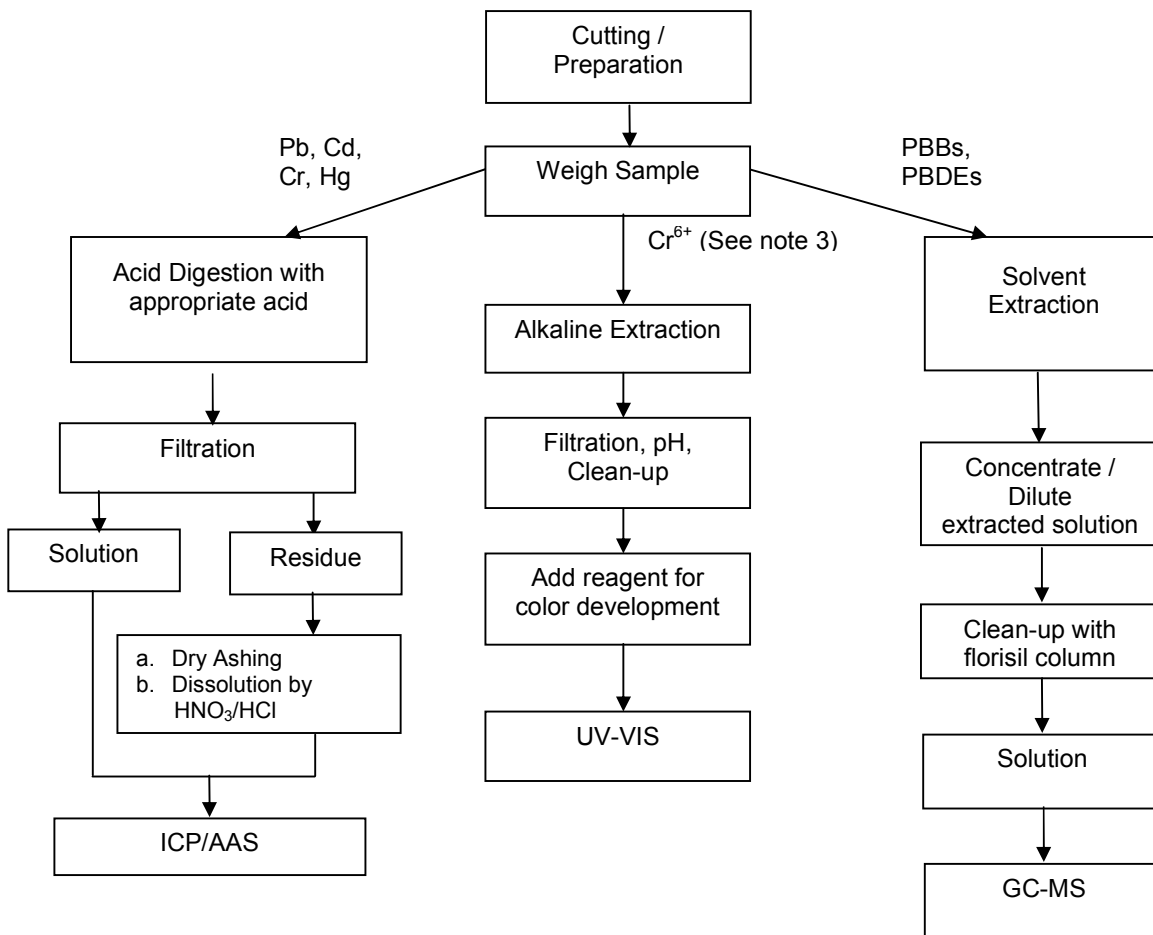
**Total Chromium analysis by ICP-OES was not detected in submitted sample. Therefore, Hexavalent Chromium determination using UV-Visible Spectroscopy was not performed.*

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Note :

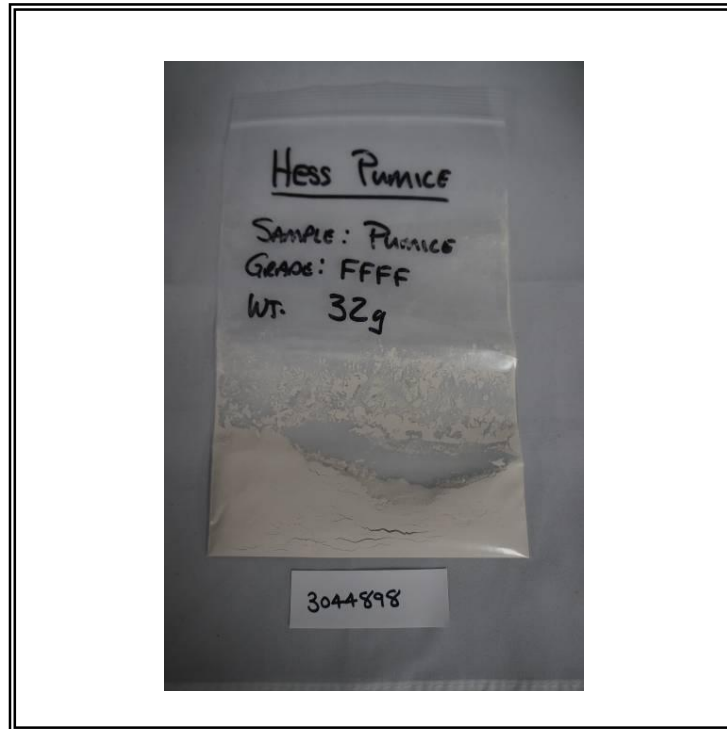
1. ND = Not Detected = denoted less than reporting limit

Flowchart for RoHS Testing:



- Note :
1. For Cr(VI), spot test is adopted for metal sample.
 2. The Cd, Pb, Hg, Cr, Sb and As contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.
 3. Cr⁶⁺ is performed only when total Cr is detected

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Sample Photo:

SGS authenticates the photo on the original report only

*** End of Report ***

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