

Test Report No. TSNEC1200423401

Date:18 May 2012

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ZHAOYUAN HUIYUAN SILICA GEL CO., LTD. 530, JINHUI ROAD, ZHAOYUAN, SHANDONG, CHINA

The following sample(s) was/were submitted and identified by/on behalf of the clients as: (1) SILICA GEL WHITE (2) SILICA GEL ORANGE (3) SILICA GEL BLUE COBALT FREE

SGS Job No. Composition Model No Date of Sample Received Testing Period	:	TP12-005817 - TJ SiO ₂ 2-4MM 14 May 2012 14 May 2012 - 17 May 2012
Test Requested	:	Selected test(s) as requested by client.
Test Method	:	Please refer to next Page(s).
Test Results	:	Please refer to next Page(s)
Conclusion	:	Based on the performed tests on submitted sample(s), the results of Lead Mercury, Cadmium, Hexavalent Chromium, Polybrominated biphenyls (PBB) Polybrominated diphenyl ethers (PBDE) comply with the limites as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Chemical Laboratory

Aimy Wang Approved signatory

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Test Results: Test Part Description: Specimen No.

SGS Sample ID TSN12-004234.001 TSN12-004234.002 TSN12-004234.003 Description white grains Orange grains Blue grains

RoHS Directive 2011/65/EU

Test Method:With reference to IEC 62321:2008

- 1.Determination of Cadmium by ICP-OES.
- 2. Determination of Lesd by ICP-OES.
- 3.Determination of Mercuiy by ICP-OES.
- 4.Determination of Hexavalent Chromium by Colorimetric Method using UV-VIS.
- 5.Determination of PBBS/PBDEs content by GC-MS.

Note:

- 1. 1mg/kg = 1ppm=0.0001%
- 2. N.D. = Not Detected (<MDL)
- 3. MDL = Method Detection Limit
- 4. "-" = Not regulated

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Test Item(s) Dibromodiphenyl ether Tribromodiphenyl ether Tetrabromodiphenyl ethe	Unit mg/kg mg/kg r mg/kg	N.D.	MDL	Limit - -
Pentabromodiphenyl ethe Hexabromodiphenyl ethe Heptabromodiphenyl ethe Octabromodiphenyl ethe	er mg/kg er mg/kg er mg/kg	N.D. N.D. N.D.		- - -
Nonabromodiphenyl ethe Decabromodiphenyl ethe	0 0			-

Notes:

1. The maximum permissible limit is quoted from directive 2011/65/EU, Annex II.

Dimethyl Fumarate (DMF)

Commission Decision 2012/48/EU (previously restricted under 2011/135/EU, 2010/153/EU and 2009/251/EC) - Dimeth Fumarate (DMF)

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Dimethyl fumarate(DMF)	mg/kg	Solvent extraction, GC-MS	N.D.	0.1	0.1

Note:

1. mg/kg = ppm

2. N.D. = Not Detected (<MDL)

3. MDL = Method Detection Limit

4. Recommended Max limit is with reference to Commission Decision 2011/135/EU (previously restricted under 2010/153/EU and 2009/251/EC)

<u>Halogen</u>

Test Method:With reference to EN 14582:2007, analysis was performed by Ion Chromatograph(IC).

Test item(s)	Unit	Result	MDL
Fluorine(F)	mg/kg	N.D.	50
Chlorine(CI)	mg/kg	N.D.	50
Bromine(Br)	mg/kg	N.D.	50
iodine(I)	mg/kg	N.D.	50

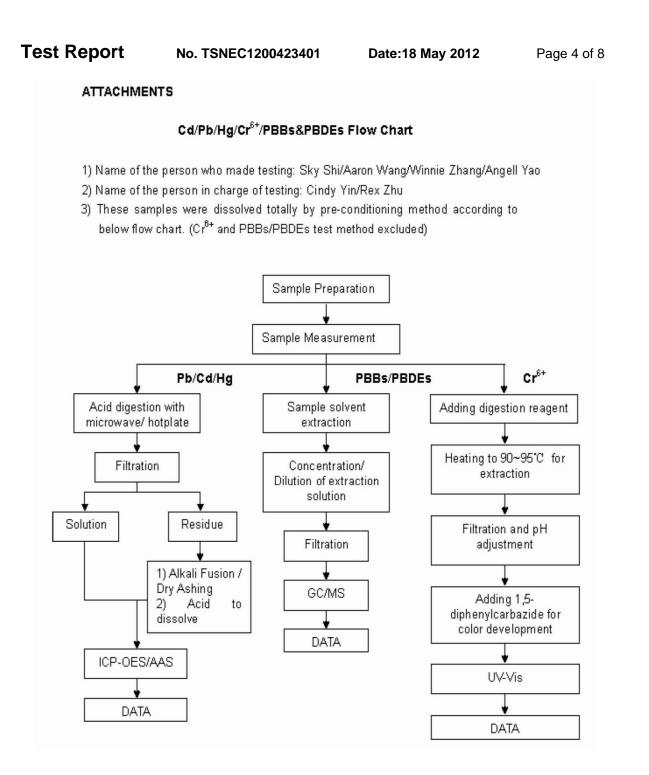
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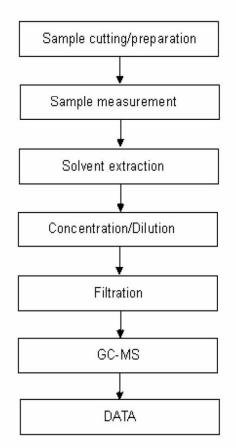
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ATTACHMENTS

DMF Testing Flow Chart

1) Name of the person who made testing: Mz Man

2) Name of the person in charge of testing: Rex Zhu



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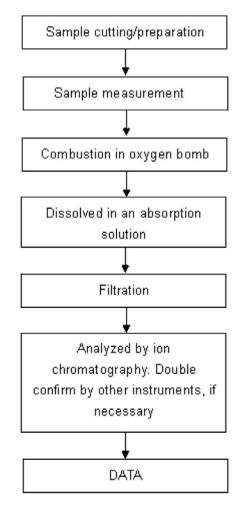
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ATTACHMENTS

Halogen Testing Flow Chart

1) Name of the person who made testing: Angell Yao

2) Name of the person in charge of testing: Rex Zhu



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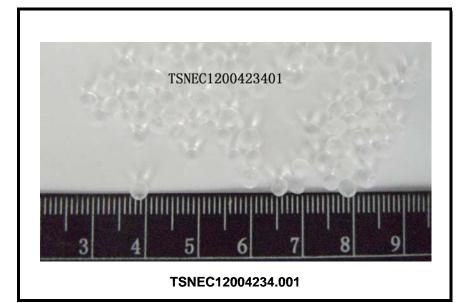
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Sample(s) photo:

(1) SILICA GEL WHITE



(2) SILICA GEL ORANGE



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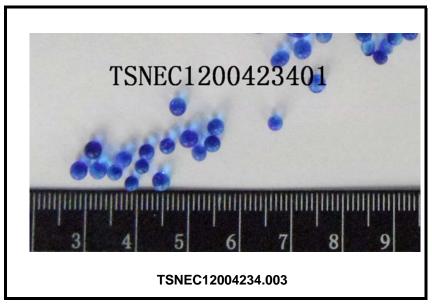
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(3) SILICA GEL BLUE COBALT FREE



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*** End of Report***

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