

REACH

Certificate of RoHS Compliance

Based on the information available to us from our suppliers, and to the best of Alliance's knowledge, we hereby certify that the materials listed below are RoHS compliant and meet the requirements of EU RoHS Directive 2011/65/EU, and do not contain the substances listed in the tables below in concentrations exceeding the Maximum Concentration Value (MCV).

Certificate of REACH Compliance

Based on the information available to us from our suppliers, and to the best of Alliance's knowledge, we hereby certify that the materials listed below are REACH compliant and meet the requirements of REACH ECHA 20/06/2013, and do not contain the Substances Of Very High Concern (SVHC) listed in the tables below per ECHA regulations of (EC) No.1907/2006

> Page 2: Compression Bonded NdFeB Page 10: Injection Molded NdFeB w/PA12 Page 15: Injection Molded NdFeB w/PPS

Alliance LLC

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No. TSNEC1301066301

Date: 28 Oct 2013

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Compression Bonded NdFeB Magnets

The following sample(s) was/were submitted and identified on behalf of the clients as : Bonded NdFeB Magnet

SGS Job No. :	TP13-005381 - TJ
Main Substance :	NdFeB
Date of Sample Received :	22 Oct 2013
Testing Period :	22 Oct 2013 - 28 Oct 2013
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).

Signed for and on behalf of SGS-CSTC Ltd.

ubera w

Reabeca Zhou Approved Signatory

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No. TSNEC1301066301

Date: 28 Oct 2013

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	TSN13-010663.001	solid with black coating (mix all)

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs(Polybrominated biphenyls) and PBBEs(PBDEs) (Polybrominated biphenyl ethers)

Test Method : (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.

(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Unit</u>	MDL	<u>001</u>
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	2	ND
Sum of PBBs	mg/kg	-	ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	5	ND
Octabromobiphenyl	mg/kg	5	ND
Nonabromobiphenyl	mg/kg	5	ND
Decabromobiphenyl	mg/kg	5	ND
Sum of PBDEs	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND

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Test Report	No. TSNEC1301066301	Date: 28	Oct 2013	Page 3 of 8
<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>	
Dibromodiphenyl ether	mg/kg	5	ND	
Tribromodiphenyl ether	mg/kg	5	ND	
Tetrabromodiphenyl ether	mg/kg	5	ND	
Pentabromodiphenyl ether	mg/kg	5	ND	
Hexabromodiphenyl ether	mg/kg	5	ND	
Heptabromodiphenyl ether	mg/kg	5	ND	
Octabromodiphenyl ether	mg/kg	5	ND	
Nonabromodiphenyl ether	mg/kg	5	ND	
Decabromodiphenyl ether	mg/kg	5	ND	

Phthalates

Test Method : With reference to EN14372: 2004, analysis was performed by GC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	% (w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	% (w/w)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	% (w/w)	0.003	ND

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

Hexabromocyclododecane (HBCDD)

Test Method : With reference to IEC 62321:2008, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes :

 Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

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Date: 28 Oct 2013 Page 4 of 8

The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

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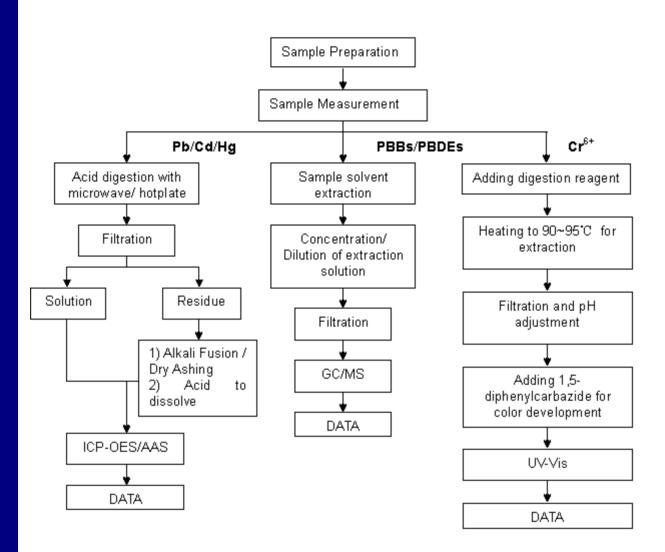
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ATTACHMENTS

IN CALLER

Cd/Pb/Hg/Cr⁶⁺/PBBs&PBDEs Flow Chart

- 1) Name of the person who made testing: Aaron Wang/Jason Li /Angell Yao
- 2) Name of the person in charge of testing: Cindy Yin/Rex Zhu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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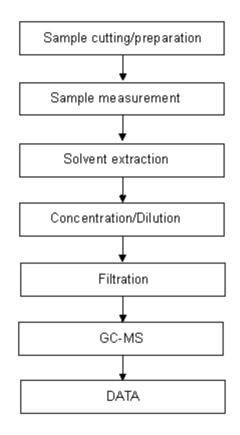
Date: 28 Oct 2013

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ATTACHMENTS

Phthalate Testing Flow Chart

- 1) Name of the person who made testing: Marina Sun
- 2) Name of the person in charge of testing: Rex Zhu



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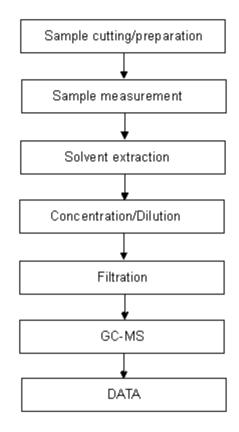
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HBCDD Testing Flow Chart

1) Name of the person who made testing: Marina Sun

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



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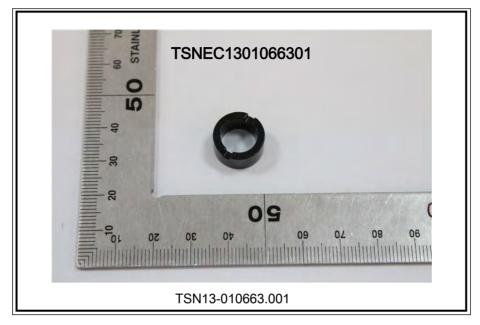
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Sample photo:



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Test Report

No. TSNEC1300105406

Date: 06 Feb 2013

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Injection Molded NdFeB with Nylon 12

The following sample(s) was/were submitted and identified on behalf of the clients as : NdFeB COMPOUND

SGS Job No. :	TP13-000506 - TJ
Model No. :	MQIP-L250-20060-205
Client Ref. Info. :	SEE ATTACHMENT
Main Substance :	NdFeB+-[(CH₂)11-NHCO]n-
Date of Sample Received :	31 Jan 2013
Testing Period :	31 Jan 2013 - 05 Feb 2013
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 samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

lament.

Summer Bai Approved Signatory

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No. TSNEC1300105406

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	TSN13-001054.006	black solid

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

- Test Method : With reference to IEC 62321:2008
 - (1) Determination of Cadmium by ICP-OES.
 - (2) Determination of Lead by ICP-OES.
 - (3) Determination of Mercury by ICP-OES.
 - (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
 - (5) Determination of PBBs / PBDEs content by GC-MS.

<u>Test Item(s)</u>	Limit	Lloit	MDL	006
	<u>Limit</u>	<u>Unit</u>		<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	2	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report	No. TSNEC13001054	06	Date: 06	Feb 2013	Page 3 of 6
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>006</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

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

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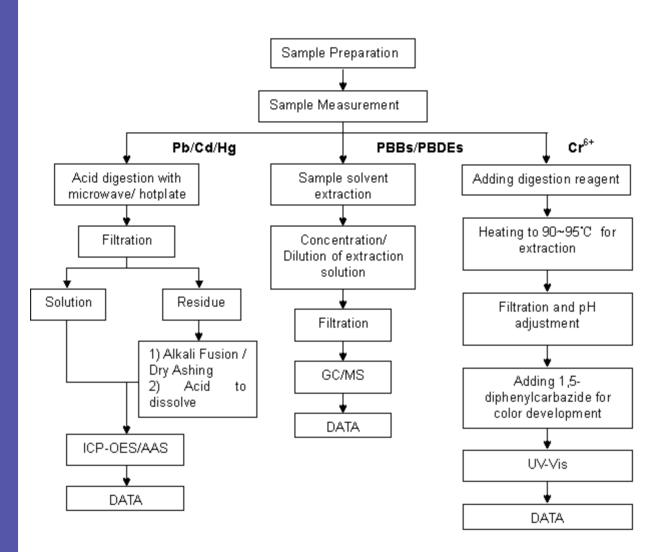
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ATTACHMENTS

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Cd/Pb/Hg/Cr⁶⁺/PBBs&PBDEs Flow Chart

- 1) Name of the person who made testing: Aaron Wang/Jason Li /Angell Yao
- 2) Name of the person in charge of testing: Cindy Yin/Rex Zhu
- These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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Sample photo:



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No.	TSNEC1300105408
INO.	13NEC1300103400

Date: 06 Feb 2013

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Injection Molded NdFeB with PPS

The following sample(s) was/were submitted and identified on behalf of the clients as : NdFeB COMPOUND

SGS Job No. :	TP13-000506 - TJ
Model No. :	MQIP-M760-20000-216
Client Ref. Info. :	OTHER MODEL NO.:MQIP-N750-20076-215;MQIP-N760-20076-216
	MQIP-M755B-20000-215
Main Substance :	NdFeB+-[C₅H₄-S]n-
Date of Sample Received :	31 Jan 2013
Testing Period :	31 Jan 2013 - 05 Feb 2013
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 samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

lament.

Summer Bai Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	TSN13-001054.008	black solid

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

- Test Method : With reference to IEC 62321:2008
 - (1) Determination of Cadmium by ICP-OES.
 - (2) Determination of Lead by ICP-OES.
 - (3) Determination of Mercury by ICP-OES.
 - (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
 - (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Linit	MDL	ററമ
	<u>Limit</u>	<u>Unit</u>		<u>008</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	2	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report	No. TSNEC1300105408		Date: 06 Feb 2013		Page 3 of 5
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>008</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

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

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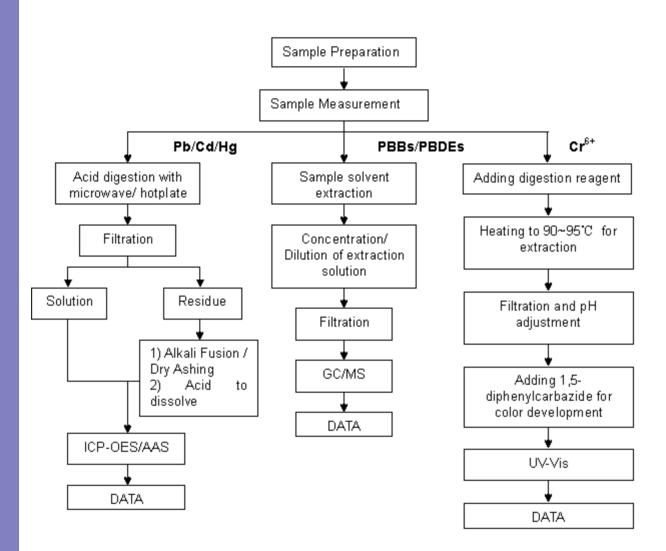
18

ATTACHMENTS

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Cd/Pb/Hg/Cr⁶⁺/PBBs&PBDEs Flow Chart

- 1) Name of the person who made testing: Aaron Wang/Jason Li /Angell Yao
- 2) Name of the person in charge of testing: Cindy Yin/Rex Zhu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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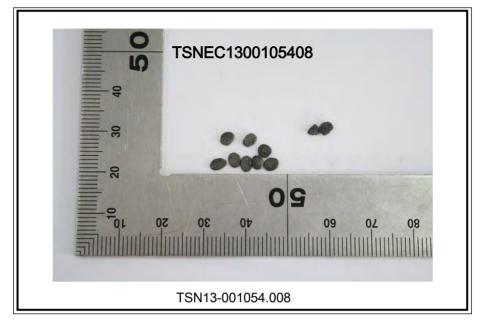
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Sample photo:



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