



**Test Report  
(SVHC)**

No. GZ1103035966/CHEM

Date: APR 14, 2011

Page 1 of 7

ZHEJIANG KEDA MAGNETOELECTRICITY CO., LTD  
NO.525 QUYUAN NORTH ROAD, WUKANG TOWN, DEQING COUNTY, ZHEJIANG, CHINA

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

SGS Job No. : SZ13030085  
SGS Internal Reference No. : 10.3  
Tested sample information : Model No.: toroidal  
Client Reference Information : 铁(IRON)7439-89-6  
Date of Sample Received : MAR 30, 2011  
Testing Period : MAR 30, 2011 TO APR 06, 2011

Test Requested : As requested by client, SVHC screening is performed according to:  
Forty six (46) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Dec 15, 2010 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Result(s) : Please refer to next page(s).

Summary :

According to the specified scope and analytical techniques, concentrations of tested SVHC are  $\leq 0.1\%$  (w/w) in the submitted sample.

PASS

Signed for and on behalf of  
SGS-CSTC Ltd.

David Zhou  
Approved Signatory

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions](http://www.sgs.com/terms_and_conditions). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not generate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



198 Kexue Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075125 | [www.cn.sgs.com](http://www.cn.sgs.com)  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075125 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



## Test Report (SVHC)

No. GZ1103035966/CHEM

Date: APR 14, 2011

Page 2 of 7

### Remark :

- (1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
[http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)  
These lists are under evaluation by ECHA and may subject to change in the future.
- (2) In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).
- (3) Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.
- (4) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

### Test Sample :

#### Sample Description :

| Specimen No. | Description  |
|--------------|--------------|
| 001          | Dk-grey core |

### Test Method :

SGS In-House method-GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, GC-MS and UV-VIS.

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions](http://www.sgs.com/terms_and_conditions). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not generate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



198 Kazhu Road, Sientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075125 | [www.cn.sgs.com](http://www.cn.sgs.com)  
中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | (86-20) 82155555 | (86-20) 82075125 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



# Test Report (SVHC)

No. GZ1103035966/CHEM

Date: APR 14, 2011

Page 3 of 7

## Test Result: (Substances in the Candidate List of SVHC)

| Substance Name  | CAS No.                      | EC No.                      | Concentration(%) | RL(%) |
|---|------------------------------|-----------------------------|------------------|-------|
|   |                              |                             | 001              |       |
| 2,4-Dinitrotoluene  | 121-14-2                     | 204-450-0                   | N.D.             | 0.050 |
| 2-Ethoxyethanol   | 110-80-5                     | 203-804-1                   | N.D.             | 0.050 |
| 2-Methoxyethanol  | 109-86-4                     | 203-713-7                   | N.D.             | 0.050 |
| 4,4'-Diaminodiphenylmethane(MDA)  | 101-77-9                     | 202-974-4                   | N.D.             | 0.050 |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)                                | 81-15-2                      | 201-329-4                   | N.D.             | 0.050 |
| Acrylamide  | 79-06-01                     | 201-173-7                   | N.D.             | 0.050 |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)                       | 85535-84-8                   | 287-476-5                   | N.D.             | 0.050 |
| Aluminosilicate Refractory Ceramic Fibres*  | 650-017-00-8<br>(Index no.)  | -                           | N.D.             | 0.005 |
| Ammonium dichromate*  | 7789-09-5                    | 232-143-1                   | N.D.             | 0.005 |
| Anthracene  | 120-12-7                     | 204-371-1                   | N.D.             | 0.050 |
| Anthracene oil*   | 90640-80-5                   | 292-602-7                   | N.D.             | 0.050 |
| Anthracene oil, anthracene paste*   | 90640-81-6                   | 292-603-2                   | N.D.             | 0.050 |
| Anthracene oil, anthracene paste, anthracene fraction*                            | 91995-15-2                   | 295-275-9                   | N.D.             | 0.050 |
| Anthracene oil, anthracene paste, distr. Lights*                                  | 91995-17-4                   | 295-278-5                   | N.D.             | 0.050 |
| Anthracene oil, anthracene-low*   | 90640-82-7                   | 292-604-8                   | N.D.             | 0.050 |
| Benzyl butyl phthalate (BBP)  | 85-68-7                      | 201-622-7                   | N.D.             | 0.050 |
| Bis(2-ethylhexyl)phthalate (DEHP)   | 117-81-7                     | 204-211-0                   | N.D.             | 0.050 |
| Bis(tributyltin)oxide (TBTO)  | 56-35-9                      | 200-268-0                   | N.D.             | 0.050 |
| Boric acid*   | 10043-35-3<br>11113-50-1     | 233-139-2<br>234-343-4      | N.D.             | 0.005 |
| Chromic acid,<br>Oligomers of chromic acid and dichromic acid,<br>Dichromic acid* | 7738-94-5<br>-<br>13530-68-2 | 231-801-5<br>-<br>236-881-5 | N.D.             | 0.005 |
| Chromium trioxide*  | 1333-82-0                    | 215-607-8                   | N.D.             | 0.005 |

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions](http://www.sgs.com/terms_and_conditions). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not generate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



SGS - Standards Technical Services Co., Ltd.  
Guangzhou Chemical Laboratory

198 Kexu Road, Sientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075125 | [www.cn.sgs.com](http://www.cn.sgs.com)  
中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | (86-20) 82155555 | (86-20) 82075125 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



# Test Report (SVHC)

No. GZ1103035966/CHEM

Date: APR 14, 2011

Page 4 of 7

| Substance Name   | CAS No.                              | EC No.                        | Concentration(%) | RL(%) |
|--|--------------------------------------|-------------------------------|------------------|-------|
|  |                                      |                               | 001              |       |
| Cobalt dichloride*   | 7646-79-9                            | 231-589-4                     | N.D.             | 0.005 |
| Cobalt(II) carbonate*  | 513-79-1                             | 208-169-4                     | N.D.             | 0.005 |
| Cobalt(II) diacetate*  | 71-48-7                              | 200-755-8                     | N.D.             | 0.005 |
| Cobalt(II) dinitrate*  | 10141-05-6                           | 233-402-1                     | N.D.             | 0.005 |
| Cobalt(II) sulphate*   | 10124-43-3                           | 233-334-2                     | N.D.             | 0.005 |
| Diarsenic pentaoxide*  | 1303-28-2                            | 215-116-9                     | N.D.             | 0.005 |
| Diarsenic trioxide*  | 1327-53-3                            | 215-481-4                     | N.D.             | 0.005 |
| Dibutyl phthalate (DBP)  | 84-74-2                              | 201-557-4                     | N.D.             | 0.050 |
| Diisobutyl phthalate   | 84-69-5                              | 201-553-2                     | N.D.             | 0.050 |
| Disodium tetraborate, anhydrous*   | 1303-96-4<br>1330-43-4<br>12179-04-3 | 215-540-4                     | N.D.             | 0.005 |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) Δ | 25637-99-4<br>and<br>3194-55-6       | 247-148-4<br>and<br>221-695-9 | N.D.             | 0.050 |
| Lead chromate*   | 7758-97-6                            | 231-846-0                     | N.D.             | 0.005 |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*   | 12656-85-8                           | 235-759-9                     | N.D.             | 0.005 |
| Lead hydrogen arsenate*  | 7784-40-9                            | 232-064-2                     | N.D.             | 0.005 |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34)*  | 1344-37-2                            | 215-693-7                     | N.D.             | 0.005 |
| Pitch, coal tar, high temp.*   | 65996-93-2                           | 266-028-2                     | N.D.             | 0.050 |
| Potassium chromate*  | 7789-00-6                            | 232-140-5                     | N.D.             | 0.005 |
| Potassium dichromate*  | 7778-50-9                            | 231-906-6                     | N.D.             | 0.005 |
| Sodium chromate*   | 7775-11-3                            | 231-889-5                     | N.D.             | 0.005 |
| Sodium dichromate*   | 7789-12-0<br>and<br>10588-01-9       | 234-190-3                     | N.D.             | 0.005 |
| Tetraboron disodium heptaoxide, hydrate*   | 12267-73-1                           | 235-541-3                     | N.D.             | 0.005 |
| Trichloroethylene  | 79-01-6                              | 201-167-4                     | N.D.             | 0.050 |
| Triethyl arsenate*   | 15606-95-8                           | 427-700-2                     | N.D.             | 0.005 |
| Tris(2-chloroethyl)phosphate   | 115-96-8                             | 204-118-5                     | N.D.             | 0.050 |
| Zirconia Aluminosilicate Refractory Ceramic Fibres*  | 650-017-00-8<br>(Index no.)          | -                             | N.D.             | 0.005 |

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions](http://www.sgs.com/terms_and_conditions). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not generate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



SGS Standards Technical Services Co., Ltd.  
Guangzhou Chemical Laboratory

198 Kexue Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075125 | [www.cn.sgs.com](http://www.cn.sgs.com)  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075125 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



## Test Report (SVHC)

No. GZ1103035966/CHEM

Date: APR 14, 2011

Page 5 of 7

### Notes:

- (1). RL = Reporting Limit. All RL are based on homogenous material.  
N.D. = Not detected (lower than RL), N.D. is denoted on the target compound.
- (2). <sup>Δ</sup> CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.
- (3). \* The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:  
[www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm](http://www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm)

Calculated concentration of boric acid, disodium tetraborate, anhydrous and tetraboron disodium heptaoxide, hydrate are based on the water extractive boron and sodium by ICP-OES.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium (VI), silicon, aluminum, zirconium, boron and potassium respectively), except molybdenum  
RL=0.0005%

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's Instructions, if any. The Company's sole responsibility is to its Client and this document does not generate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



198 Kazhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075125 | [www.cn.sgs.com](http://www.cn.sgs.com)  
中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | (86-20) 82155555 | (86-20) 82075125 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

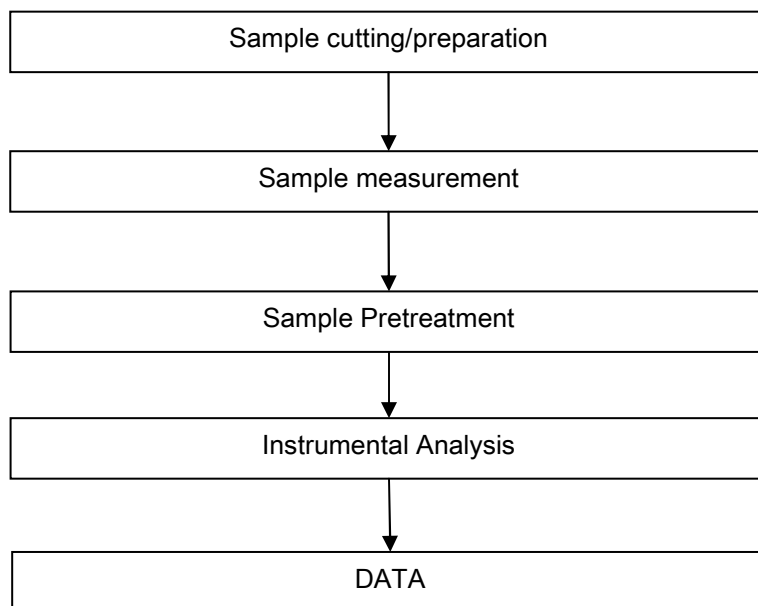
Member of the SGS Group (SGS SA)



## ATTACHMENTS

### SVHC Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Tina Zhao
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang



This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not generate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.

Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions](http://www.sgs.com/terms_and_conditions). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not generate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.

