

JINZHOU KAIMEI POWER CO.,LTD  
NO.139.7 SECTION CHONGQING ROAD,LINGHE DISTRICT, JINZHOU CITY, LIAONING PROVINCE,CHINA

Sample Name:                    COIN-TYPE SUPERCAPACITOR

SGS Ref:                        TP19-000445-TJ

Verification Period:            15 Jan 2019 – 01 Feb 2019

Verification Requested:        By client's request, verify Chlorine and Bromine concentration in each homogenous material of the submitted sample.

Verification Method:            1. Review was performed for the samples disjointed from the articles submitted by the Applicant  
2. Test was performed for the samples indicated by the photos in the report with below test methods:  
    (1) Screening by XRF Spectroscopy  
    (2) Wet Chemical Test Method  
        a. Determination of Chlorine and Bromine by IC with reference to EN14582:2016

Verification Summary:         Based on the verification results of the submitted sample, each homogenous material subject to verification in the submitted sample has a maximum concentration of 900 mg/kg Bromine or Chlorine and a maximum concentration of 1500mg/kg total Chlorine and Bromine.

Note:                              The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Patrick Kou  
Approved Signatory



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Details on Verification

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Results of IC Testing <sup>(2)</sup> (mg/kg)	No. of Related Test Report	Results in Related Test Report <sup>(2)</sup> (mg/kg)	Cl/Br ≤ 900 (mg/kg)	Cl+Br ≤ 1500 (mg/kg)	Sample Submitted / Resubmitted Date
1	Blue/gray plastic (supercapacitor)		Cl	BL	---	\	\	Comply	Comply	15 Jan 2019
			Br	BL	---		\	Comply		
2	White plastic (supercapacitor)		Cl	BL	---	\	\	Comply	Comply	15 Jan 2019
			Br	BL	---		\	Comply		
3	Brown plastic (supercapacitor)		Cl	BL	---	\	\	Comply	Comply	15 Jan 2019
			Br	BL	---		\	Comply		
4	White paper (supercapacitor)		Cl	BL	---	\	\	Comply	Comply	15 Jan 2019
			Br	BL	---		\	Comply		
5	Black solid (supercapacitor)		Cl	BL	---	\	\	Comply	Comply	15 Jan 2019
			Br	BL	---		\	Comply		



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Remark:

- 1) (a) Results are obtained by EDXRF for primary screening, and further chemical testing by IC (for Cl,Br) is recommended to be performed, if the concentration exceeds the below warning value according. (unit: mg/kg)

Element	Screening limits in mg/kg
Cl	$BL \leq (400-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (600-3\sigma) < X < (1300+3\sigma) \leq OL$
Cl+Br	$BL \leq (1000-3\sigma) < X < (2800+3\sigma) \leq OL$

(b) BL = Below Limit, OL = Over Limit, IN = Inconclusive

(c) The XRF screening test for Cl,Br elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

- 2) (a) mg/kg = ppm = 0.0001%, ND = Not Detected (<MDL), --- = Not Conducted.

(b) Unit and Method Detection Limit (MDL) in IC test

Test Items	Cl	Br
Units	mg/kg	mg/kg
MDL	50	50



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Photo Index:



SGS authenticate the photo on original report only

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

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