

# CPST

## Test Report

No. C190417061002-1

Date: Apr 23, 2019

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Applicant: Shenzhen ECAP Technology Co.,Ltd

Applicant Address: Gate 2, no. 29, zhongkeng road, sanzong village, qingxi town, dongguan city

The following samples were submitted and identified on behalf of the clients as

Sample Name: Black crystal ceramic heating element  
Model: 4.3\*2.0\*6.0  
Lot No.: 4.3\*2.0\*6.0,5.7\*4.7,3.0\*6.0,3.7\*6.0,7.5\*5.5  
CPST Internal Reference No.: C190417061  
Sample Received Date: Apr 17, 2019  
Test Period: Apr 17, 2019 to Apr 23, 2019  
Test Method: Please refer to next pages.  
Test Result: Please refer to next pages.

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**CONCLUSION :**

<u>TESTED SAMPLES</u>	<u>TEST ITEM</u>	<u>RESULT</u>
Black crystal ceramic heating element	1. RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102—Lead, Cadmium, Mercury, Hexavalent Chromium(Cr <sup>6+</sup> ) content	<b>PASS</b>

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Signed for and on behalf of  
**Eurones Consumer Products Testing Service Co., Ltd**

TESTED BY :

REVIEWED BY:

APPROVED BY:

*Andy Wang*

*Sunshine Liu*

*Will Pan*

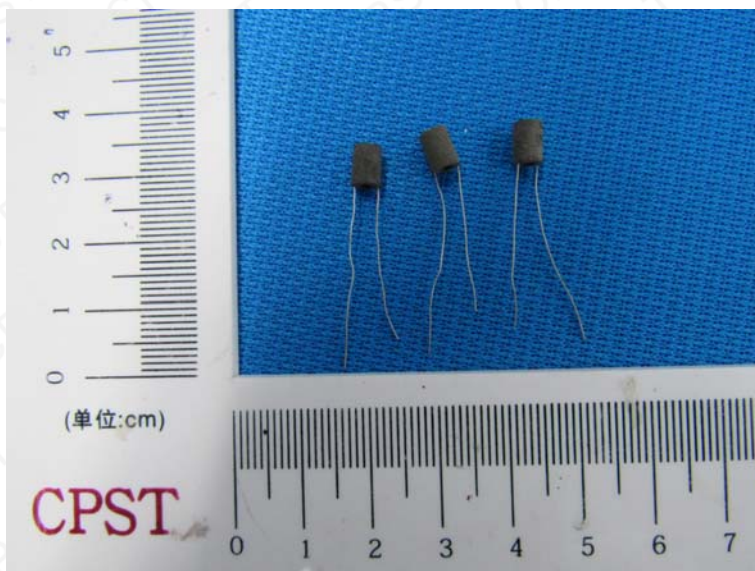
Wang Guang Yu, Andy  
Project Leader

Liu Xiao Fang, Sunshine  
Report Reviewer

Pan Jian Ding, Will  
Technical Supervisor

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### Photo of the Submitted Sample



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## Test Report

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### Test Result(s):

Description of Specimen : No.1 Black ceramic  
No.2 Iron wire

### 1. RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102—Lead, Cadmium, Mercury, Hexavalent Chromium(Cr<sup>6+</sup>) content

Test Items	Unit	Test Method	Result	MDL	Limit
			No.1		
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	2	100
Hexavalent Chromium (Cr <sup>6+</sup> )	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	2	1000

Test Items	Unit	Test Method	Result	MDL	Limit
			No.2		
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	2	100
Hexavalent Chromium (Cr <sup>6+</sup> )	µg/cm <sup>2</sup>	IEC 62321-7-1:2015, UV-VIS	N.D.	0.10	0.10

#### Note:

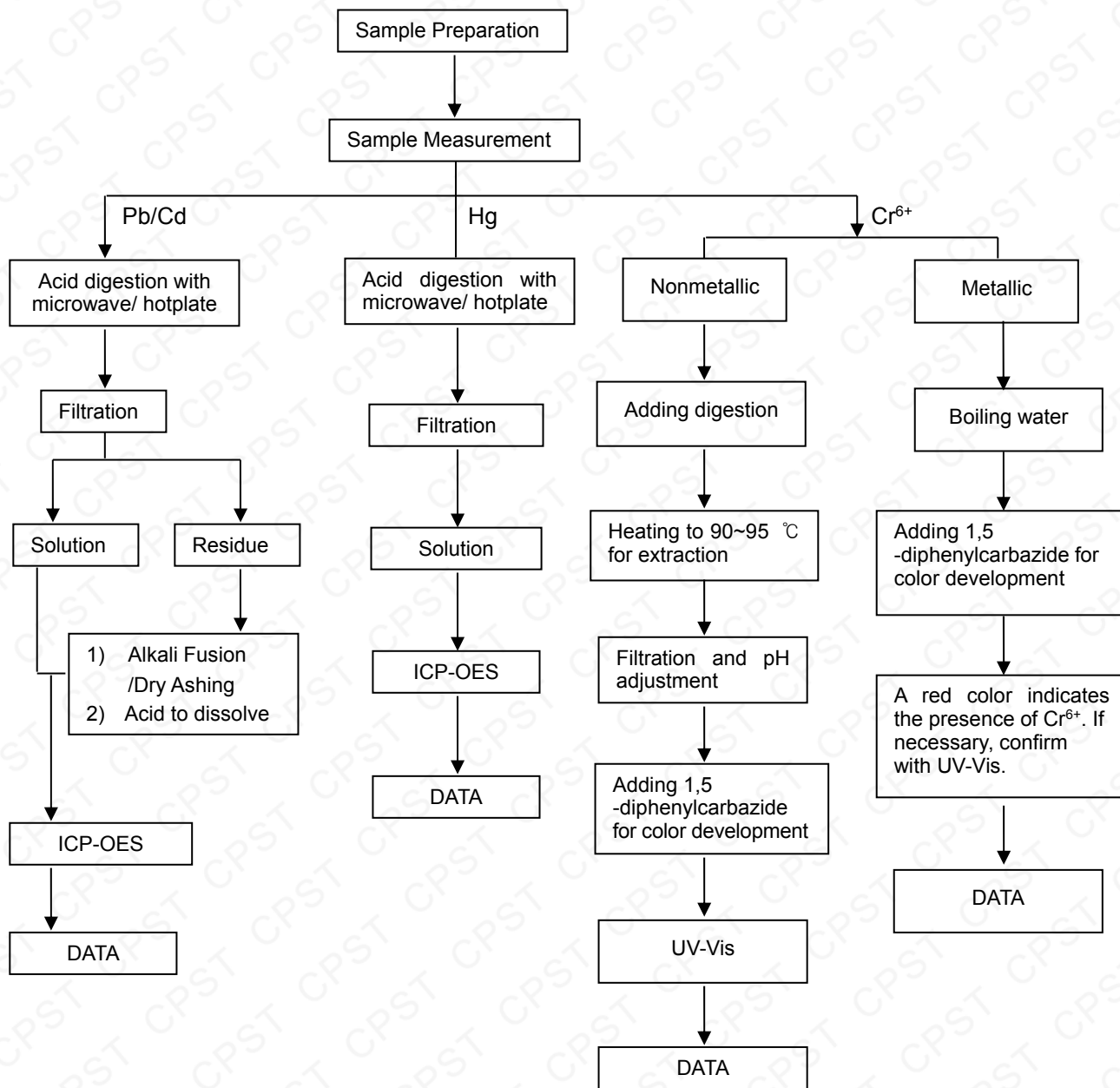
1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. “-” = Not Regulated
5. Boiling-water-extraction:  
Negative = Absence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is less than 0.10µg with 1cm<sup>2</sup> sample surface area.  
Positive = Presence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is greater than 0.13µg with 1cm<sup>2</sup> sample surface area.  
Inconclusive = the detected concentration in boiling-water-extraction solution is greater than 0.10µg and less than 0.13µg with 1cm<sup>2</sup> sample surface area.
6. Positive = result be regarded as not comply with RoHS requirement
7. Negative = result be regarded as comply with RoHS requirement
8. No.2 data refer to C190417061001.

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### Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)



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

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