

TEST REPORT

Report No.: XMTN1220314-08701E

Date: March 18, 2022

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Xiamen Innovacera Advanced Materials CO., LTD

A506-507, No. 7 Yu' nan Fourth Road, Huli District, Xiamen area of China (Fujian) Pilot Free Trade Zone

Report on the submitted samples said to be:

Sample Description:	Silicon Nitride Ceramic Tube
Style/Item No.:	OD11*ID8*41mm
Color:	Black
Country of Origin:	China
Manufacturer:	Xiamen Innovacera Advanced Materials CO., LTD
Supplier:	Xiamen Innovacera Advanced Materials CO., LTD
Sample Receiving Date:	March 15, 2022
Testing Period:	March 15, 2022 - March 18, 2022
Result:	Please refer to next page(s).

Signed for and on behalf of

BACL



Checked by: _____
Jenifer Yu

Approved by: _____
Fedor Zhang

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Summary of Test Result:

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CONCLUSION

A RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863

Pass

A.1 Wet Chemical Testing

A.1.1 Total Lead content

Please refer to next page(s).

A.1.2 Total Cadmium content

Please refer to next page(s).

A.1.3 Total Mercury content

Please refer to next page(s).

A.1.4 Chromium VI (CrVI) content

Please refer to next page(s).

A.1.5 PBBs & PBDEs content

Please refer to next page(s).

A.2 Phthalates(DBP, BBP, DEHP, DIBP)content

Please refer to next page(s).

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Result:

Tested part(s):

(1) Black ceramics

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A RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863

A.1 Wet Chemical Testing

A.1.1 Total Lead content

Test method: IEC 62321-5:2013

Item	Unit	RL	Result	Limit
			(1)	
Lead(Pb)	mg/kg	10	N.D.	1000
Conclusion	/	/	Pass	/

A.1.2 Total Cadmium content

Test method: IEC 62321-5:2013

Item	Unit	RL	Result	Limit
			(1)	
Cadmium(Cd)	mg/kg	10	N.D.	100
Conclusion	/	/	Pass	/

A.1.3 Total Mercury content

Test method: IEC 62321-4:2013+AMD1:2017

Item	Unit	RL	Result	Limit
			(1)	
Mercury(Hg)	mg/kg	10	N.D.	1000
Conclusion	/	/	Pass	/

A.1.4 Chromium VI (CrVI) content

Test method: IEC 62321-7-2:2017

Item	Unit	RL	Result	Limit
			(1)	
hexavalent chromium(Cr VI)	mg/kg	10	N.D.	1000
Conclusion	/	/	Pass	/

A.1.5 PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	RL	Result	Limit
			(1)	
Monobromobiphenyl (MonoBB)	mg/kg	100	N.D.	-
Dibromobiphenyl(DiBB)	mg/kg	100	N.D.	-
Tribromobiphenyl(TriBB)	mg/kg	100	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/kg	100	N.D.	-

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Item	Unit	RL	Result	Limit
			(1)	
Pentabromobiphenyl(PentaBB)	mg/kg	100	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/kg	100	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/kg	100	N.D.	-
Octabromobiphenyl(OctaBB)	mg/kg	100	N.D.	-
Nonabromobiphenyl(NonaBB)	mg/kg	100	N.D.	-
Decabromobiphenyl(DecaBB)	mg/kg	100	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/kg	100	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	100	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	100	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	100	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	100	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	100	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	100	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/kg	100	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	100	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	100	N.D.	-
sum of MonoBDE,DiBDE,TriBDE,TetraB DE,PentaBDE,HexaBDE,HeptaB DE,OctaBDE,NonaBDE,DecaBD E	mg/kg	-	N.D.	1000
sum of MonoBB,DiBB,TriBB,TetraBB,Pe ntaBB,HexaBB,HeptaBB,OctaB B,NonaBB,DecaBB	mg/kg	-	N.D.	1000
Conclusion	/	/	Pass	/

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Remark:

The maximum permissible limit is quoted from RoHS directive 2011/65/EU its amendment directives:

RoHS Restricted Substances Maximum Concentration Value (mg/kg)
(by weight in homogenous materials)

Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Note:

- N.D. = Not Detected or less than RL
- RL = Report Limit
- mg/kg = ppm
- The results less than RL are not taken into account while calculating the sum contents.

A.2 Phthalates(DBP, BBP, DEHP, DIBP)content

Test method: IEC 62321-8:2017

Item	Unit	RL	Result	Limit
			(1)	
Dibutyl Phthalate(DBP)	%	0.010	N.D.	0.1
Benzyl Butyl Phthalate(BBP)	%	0.010	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.010	N.D.	0.1
Diisobutyl phthalate(DIBP)	%	0.010	N.D.	0.1
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than RL
- RL = Report Limit
- 0.1% = 1000 mg/kg, mg/kg = ppm

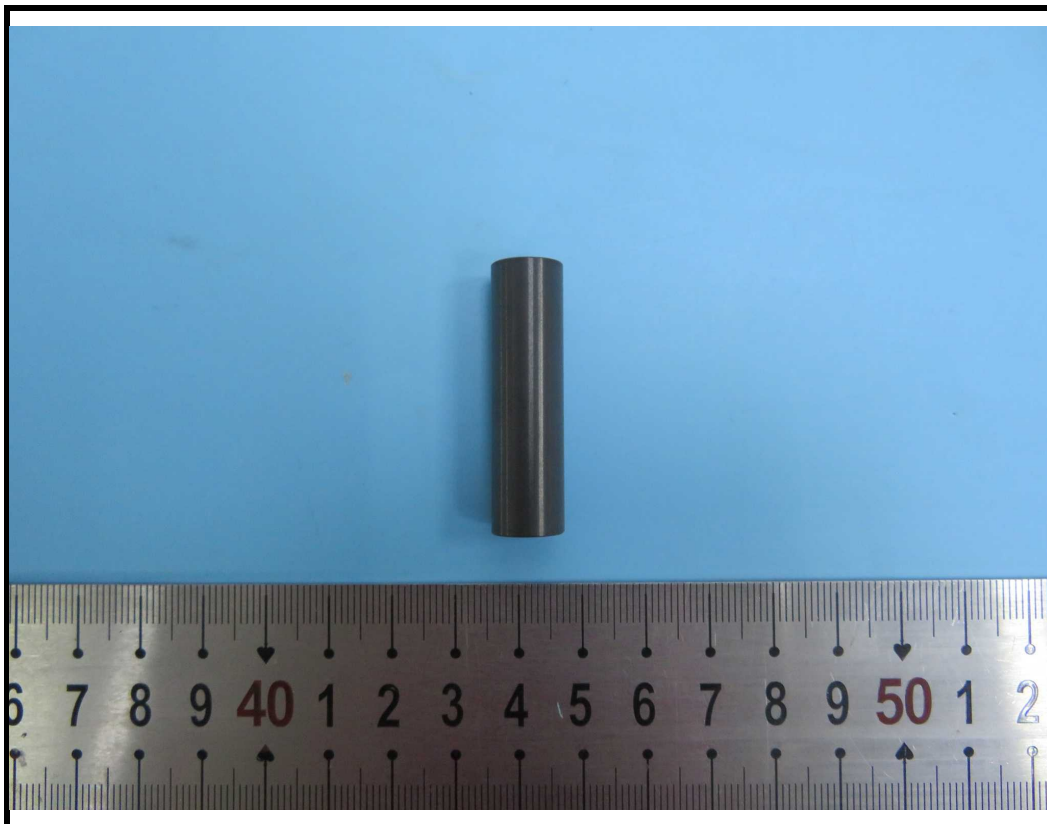
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Photograph of Sample



BACL authenticate the photo on original report only

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Statement:

- 1.This report cannot be reproduced except in full, without prior written approval of the Company.
- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 6.The test samples were in good condition before testing.
- 7.The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

*** End of Report ***