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Applicant : SHANGHAI MEISONGBEI ELECTRONICS CO.,LTD.

Address : No.3891 Jinxiu Road, Pudong New District, Shanghai, China

Manufacturer : SHANGHAI MEISONGBEI ELECTRONICS CO.,LTD.

Address : No.3891 Jinxiu Road, Pudong New District, Shanghai, China

Report on the submitted samples said to be:

Sample Name : Ferrite Core

Trade Mark : MEISONGBEI

Tested model : RH Series, T Series, FS Series, SF Series

Date of Sample Received : June 11, 2024

Testing Period : June 11, 2024 ~ June 20, 2024

Results : Please refer to next page(s).

TEST REQUEST CONCLUSION

According to the customer's request, based on the performed tests on submitted sample, the result of Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, Dibutyl Phthalate (DBP), Benzyl butyl Phthalate (BBP), Bis(2-ethylhexyl) Phthalate (DEHP), Diispbutyl phthalate (DIBP) content comply with the limit as set of RoHS Directive

Pass

2011/65/EU Annex II amending Directive (EU)2015/863.

Signed for and on behalf of AZT

Jack Zhong





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Test Item Description And Photo List

No.	Tested Part(s)	The photo of the sample			
1	Black magnet				
2	Black magnet	01 02 03 04 05 06			
3	Black magnet				
4	Black magnet				
5	Black plastic				
6	Black magnet	07			
7	Gray plastic				





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Results:

<u>A. RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 on XRF</u>

<u>Test method:</u> With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

	Pit	Results					
No.	Tested Part(s)	64	Pb P	Hg	Cr▼	Br▼	
	4	Cd				PBBs	PBDEs
1	Black magnet	BL	BL	BL	BL	1	10
2	Black magnet	BL	BL	BL	BL	1	1
3	Black magnet	BL	BL	BL	BL	1	1
4	Black magnet	BL	BL	BL	BL	1	1
5	Black plastic	BL	BL	BL	BL	BL	BL
6	Black magnet	BL	BL	BL	BL	1	1
7	Gray plastic	BL	BL	BL	BL	BL	BL





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Note:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

XRF screening limits for different materials:

Element	Unit	Non-metal	Metal	Composite Material
04	mg/kg	BL≤70-3σ <x< td=""><td>BL≤70-3σ<x< td=""><td>BL≤50-3σ<x< td=""></x<></td></x<></td></x<>	BL≤70-3σ <x< td=""><td>BL≤50-3σ<x< td=""></x<></td></x<>	BL≤50-3σ <x< td=""></x<>
Cd		<130+3σ≤OL	<130+3σ≤OL	<150+3σ≤OL
DL DL	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Pb		<1300+3σ≤OL	<1300+3σ≤OL	<1500+3σ≤OL
Ца	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Hg		<1300+3σ≤OL	<1300+3σ≤OL	<1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td></td><td>BL≤250-3σ<x< td=""></x<></td></x<>		BL≤250-3σ <x< td=""></x<>

Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive

- (2) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863.
- (4) ▼=For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr (VI), and the results showed the total Cr content.





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RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials) 100			
Cadmium (Cd)				
Lead (Pb)	1000			
Mercury (Hg)	1000			
Hexavalent Chromium (Cr(VI))	1000			
Polybrominated biphenyls (PBBs)	1000			
Polybrominated diphenyl ethers (PBDEs)	1000			
Dibutyl Phthalate (DBP)	1000			
Benzyl butyl Phthalate (BBP)	1000			
Bis(2-ethylhexyl) Phthalate (DEHP)	1000			
Diispbutyl Phthalate (DIBP)	1000			

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.





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B. RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 - Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content.

Test method:

Lead & Cadmium Content:

With reference to IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Mercury Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Hexavalent Chromium Content:

With reference to IEC 62321-7-2:2017, analysis was performed by UV-visible spectrophotometer (UV-Vis).

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

DBP, BBP, DEHP, DIBP Content:

With reference to IEC 62321-8:2017, analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

1) The test results of DBP, BBP, DEHP & DIBP

	Distr.					
Took Itama	CAS No.	Unit	MDL	Results	Limit	
Test Items				5+7		
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	50	N.D.	1000	
Benzyl butyl Phthalate (BBP)	85-68-7	mg/kg	50	N.D.	1000	
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	50	N.D.	1000	
Diispbutyl Phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	1000	

Remark:

- mg/kg = ppm
- N.D. = Not detected
- MDL= Method detected limited
- The samples were mixed for phthalic acid test
- Tested part(s) was/were specified by client
- Flow chart appendix is included
- Photo appendix is included



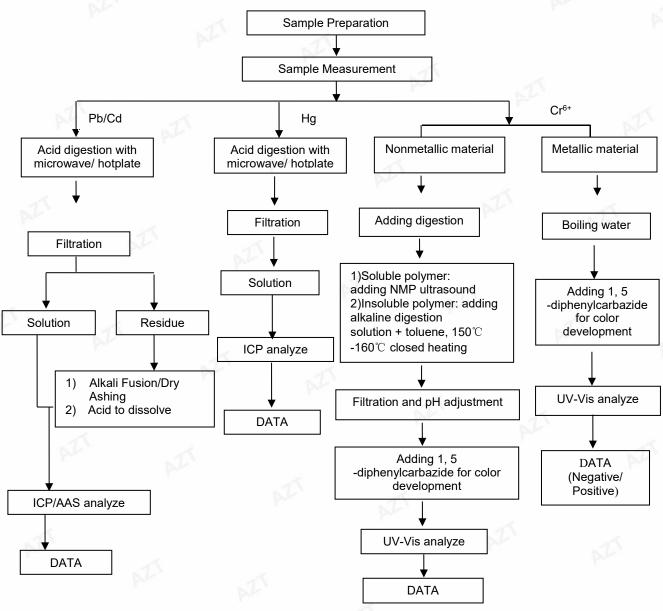


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Appendix

Pb/Cd/Hg/Cr6+ Testing Flow Chart



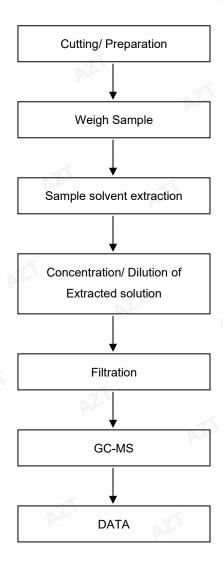




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PBBs/PBDEs Testing Flow Chart



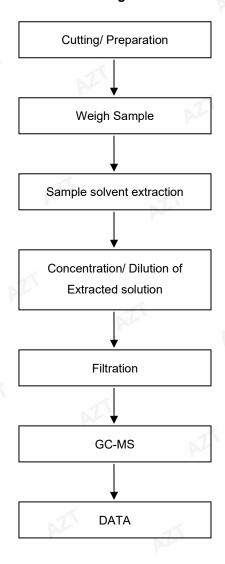




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Phthalates Testing Flow Chart







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The photo of the sample



AZT authenticate the photo on original report only

Statement:

- 1. This test report is invalid without the signature of the approver and the special seal of the company's report.
- 2. The copy of the test report is invalid if the "special seal for testing" or "Special Seal for testing" or the official seal of the testing unit is not re-stamped.
- 3. After the test report is altered, the test report is invalid.

Shenzhen AZT Technology Co., Ltd.

- 4. If there is any objection to the test report, please submit written comments to the laboratory within 15 days from the date of receipt of the report.
- 5. This test is only responsible for samples provided by customers.
- 6. This report shall not be reproduced in whole or in part without the written authorization of the Company.
- 7. The laboratory is not responsible for sampling, all samples are provided by customers.
- 8. The test results in this test report are only related to the samples provided by the customer.

*** End of Report ***

