

TEST REPORT

Report No.:UTS25120146M35E

Report Date: 2025/12/22

Client : Jiangsu Jinhap automotive parts Co.,LTD

Address : No. 50, Laoshan south road, Yancheng economic development zone, Jiangsu province

The sample(s) information below is/are provided and confirmed by client:

Sample Name : PFZnNi5-D (Zinc nickel alloy black)

Description : Coating

Receiving Date : 2025/12/09

Test Item : RoHS 2.0

Conclusion : Based on the analysis of the submitted sample, the results meet the requirements of EU RoHS Directive 2011/65/EU Annex II and its amending Directive (EU)2015/863.

Approved by  樊建红
樊建红 授权签字人

Reviewed by 马林
马林

Prepared by 闵丹丹
闵丹丹

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1. Test Standard
IEC 62321-5:2013;IEC 62321-4:2013+AMD1:2017 CSV;IEC 62321-7-1:2015;IEC 62321-6:2015;
IEC 62321-8:2017

2. Test Date
2025/12/15-2025/12/16

3. Test Equipment

Test Equipment	Equipment Number	Calibration Period of Validity
ICP-OES	M-1-584	2027/12/10
UV-vis	M-1-622	2026/12/10
GC-MS	M-1-583	2027/12/11
GC-MS	M-1-582	2027/12/10

.....To be continued.....

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4. Test Result(s)

Test Items	Methods	MDL (mg/kg)	Results (mg/kg)	Limits* (mg/kg)
Pb	M1	2	N.D.	1000
Cd		2	N.D.	100
Hg	M2	2	N.D.	1000
Cr (VI)	M3	---	Negative	---
Monobromobiphenyl (MonoBB)	M4	5	N.D.	---
Dibromobiphenyl (DiBB)		5	N.D.	---
Tribromobiphenyl (TriBB)		5	N.D.	---
Tetrabromobiphenyl (TetraBB)		5	N.D.	---
Pentabromobiphenyl (PentaBB)		5	N.D.	---
Hexabromobiphenyl (HexaBB)		5	N.D.	---
Heptabromobiphenyl (HeptaBB)		5	N.D.	---
Octabromobiphenyl (OctaBB)		5	N.D.	---
Nonabromobiphenyl (NonaBB)		5	N.D.	---
Decabromobiphenyl (DecaBB)		5	N.D.	---
Total PBBs / sum of above		---	N.D.	1000
Monobromodiphenyl ether (MonoBDE)		5	N.D.	---
Dibromodiphenyl ether (DiBDE)		5	N.D.	---
Tribromodiphenyl ether (TriBDE)		5	N.D.	---
Tetrabromodiphenyl ether (TetraBDE)		5	N.D.	---
Pentabromodiphenyl ether (PentaBDE)		5	N.D.	---
Hexabromodiphenyl ether (HexaBDE)		5	N.D.	---
Heptabromodiphenyl ether (HeptaBDE)		5	N.D.	---
Octabromodiphenyl ether (OctaBDE)		5	N.D.	---
Nonabromodiphenyl ether (NonaBDE)		5	N.D.	---
Decabromodiphenyl ether (DecaBDE)		5	N.D.	---
Total PBDEs / sum of above		---	N.D.	1000
Dibutyl Phthalate(DBP)	M5	30	N.D.	1000
Benzylbutyl Phthalate(BBP)		30	N.D.	1000
Di-(2-ethylhexyl)Phthalate(DEHP)		30	N.D.	1000
Diisobutyl phthalate(DIBP)		30	N.D.	1000

Remark : *The Limits are based on the requirements of EU RoHS Directive 2011/65/EU Annex II and its amending Directive (EU)2015/863.

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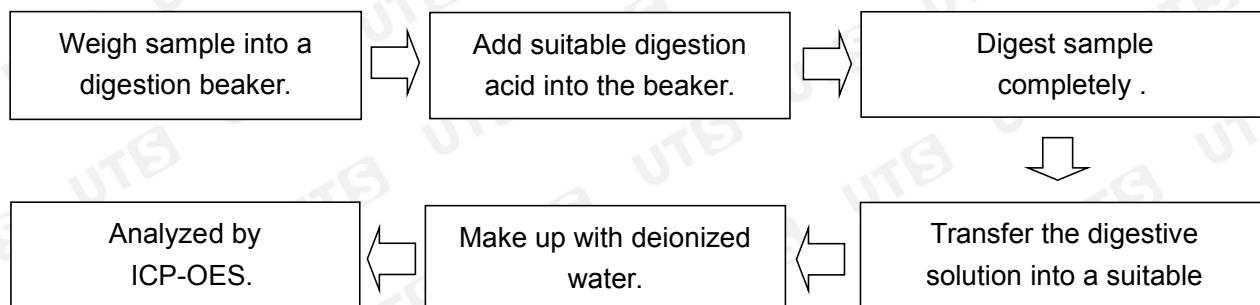
Report Date: 2025/12/22

- Note :
- 1) “---” = Not Regulated.
 - 2) N.D. = Not detected, less than MDL.
 - 3) M1: With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.
 - 4) M2: With reference to IEC 62321-4:2013+AMD1:2017 CSV, analysis was performed by ICP-OES.
 - 5) M3: With reference to IEC 62321-7-1: 2015,
Boiling water extraction:
Negative: The Cr(VI) concentration of sample is below $0.10\mu\text{g}/\text{cm}^2$;
Positive: The Cr(VI) concentration of sample is above $0.13\mu\text{g}/\text{cm}^2$;
Inconclusive: The Cr(VI) concentration of sample is between $0.10\mu\text{g}/\text{cm}^2$ and $0.13\mu\text{g}/\text{cm}^2$.
 - 6) M4: With reference to IEC 62321-6: 2015, analysis was performed by GC-MS.
 - 7) M5: With reference to IEC 62321-8: 2017, analysis was performed by GC-MS.

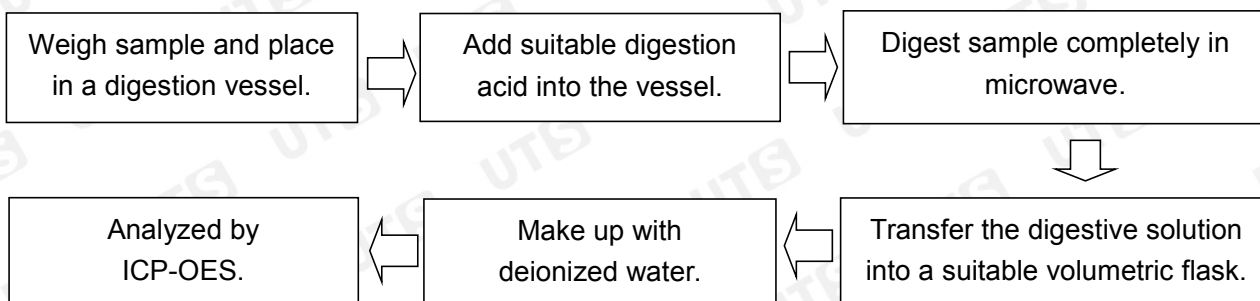
TEST PART DESCRIPTION: Coating(Metal)

FLOW CHART

1. Test for Pb, Cd Content



2. Test for Hg Content

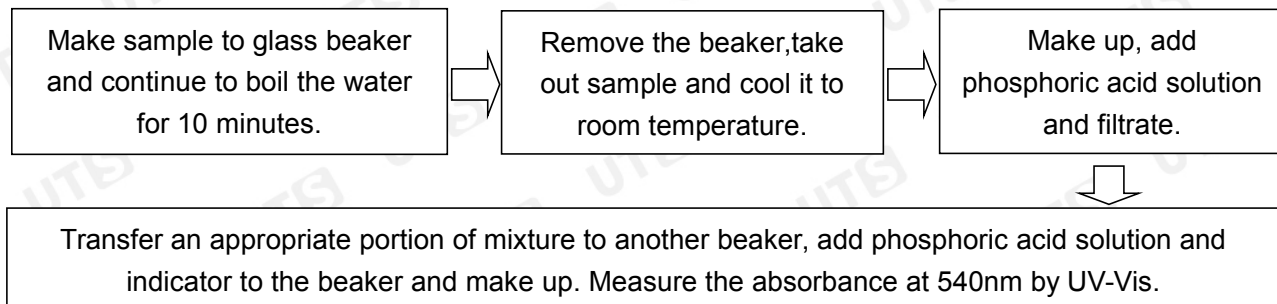


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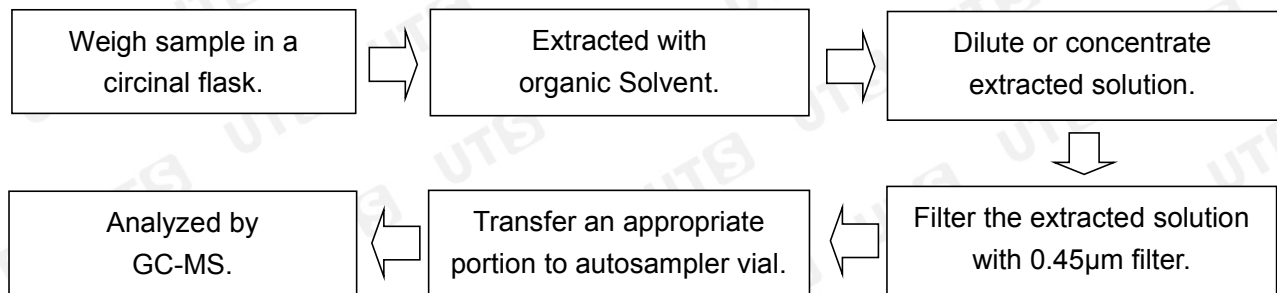
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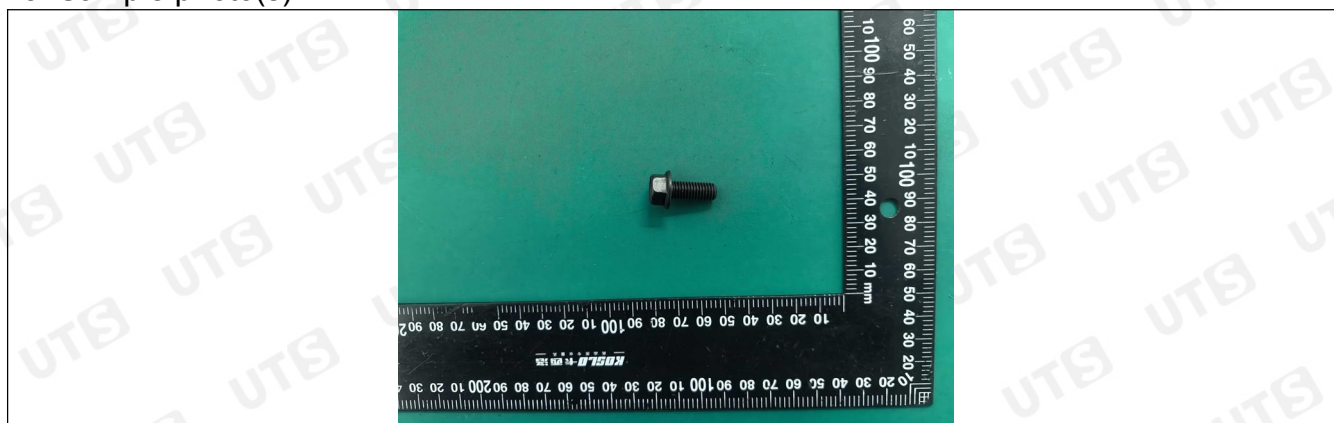
3. Test for Chromium (VI) Content



4. Test for PBBs&PBDEs and Phthalates Content



5. Sample photo(s)



.....End of Report.....

Test results in this report are only used for scientific research, teaching and internal quality control.