

TEST REPORT

Report No.: UTS25120146M02E

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 : 20MnTiB

Description : Substrate

Receiving Date : 2025/12/09

Test Item : Pb、Cd、Hg、Cr (VI)、PBBs、PBDEs & HBCDD

Conclusion : Based on the analysis of the submitted sample, the results meet the customer requirements.

Approved by



樊建红 授权签字人

Reviewed by

马林

马林

Prepared by

闵丹丹

闵丹丹

Page 1 of 7

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TEST REPORT

Report No.:UTS25120146M02E Report Date: 2025/12/22

1. Test Standard
QC/T 941-2013, QC/T 942-2021, QC/T 943-2013, QC/T 944-2013; EPA 3550C:2007 & EPA 8270E:2018

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

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

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4. Test Result(s)

4.1 Pb、Cd、Hg、Cr (VI)、PBBs、PBDEs

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

Remark: *The Limits are based on the customer requirements.

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

TEST REPORT

Report No.:UTS25120146M02E

Report Date: 2025/12/22

4.2 HBCDD

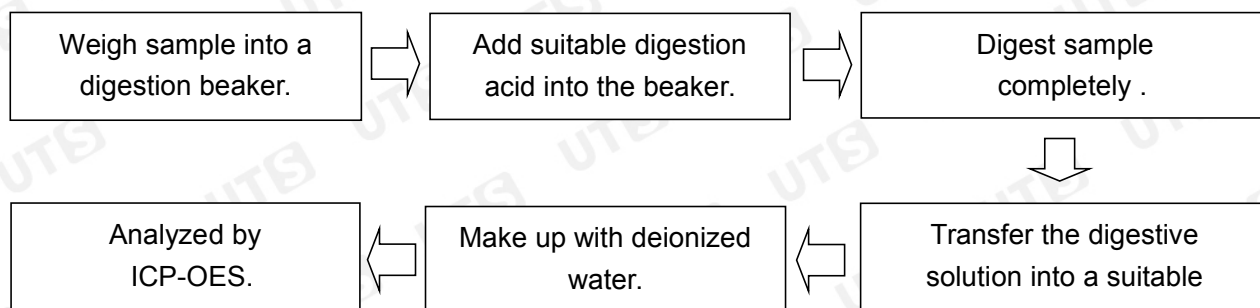
Test Items	Methods	MDL (mg/kg)	Results (mg/kg)
HBCDD	M5	20	N.D.

- Note :
- 1) N.D. = Not detected, less than MDL.
 - 2) “---” = Not Regulated.
 - 3) M1: With reference to QC/T 943-2013, analysis was performed by ICP-OES.
 - 4) M2: With reference to QC/T 941-2013, analysis was performed by ICP-OES.
 - 5) M3: With reference to QC/T 942-2021,
Spot test: Negative=Not detected Cr(VI) in plating; Positive=Detected Cr(VI) in plating.
(If you are not sure about the result of the Spot test, use the boiling water extraction method to confirm the result)
Boiling water extraction method:
Negative= Not detected Cr(VI) in plating; Positive=The Cr(VI) concentration detected is equal to or greater than 0.1µg/cm² with a sample surface area of 50cm² used.
 - 6) M4: With reference to QC/T 944-2013, analysis was performed by GC-MS.
 - 7) M5: With reference to EPA 3550C:2007 & EPA 8270E:2018, analysis was performed by GC-MS.

TEST PART DESCRIPTION: Substrate(Metal)

FLOW CHART

1. Test for Pb, Cd Content



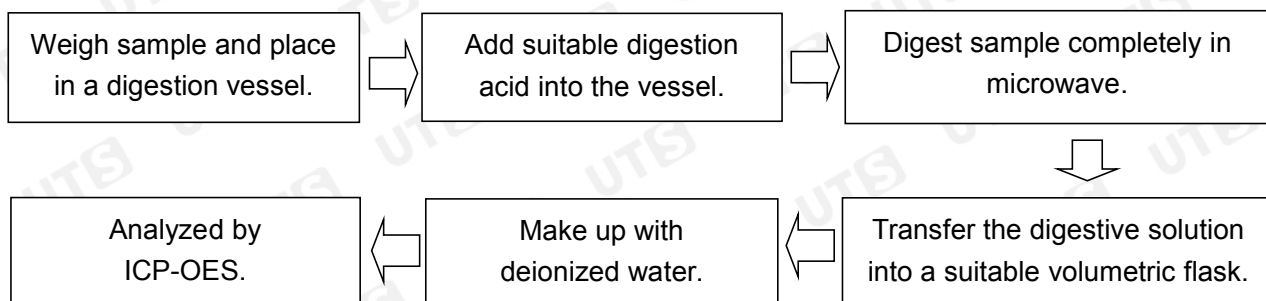
.....To be continued.....

TEST REPORT

Report No.:UTS25120146M02E

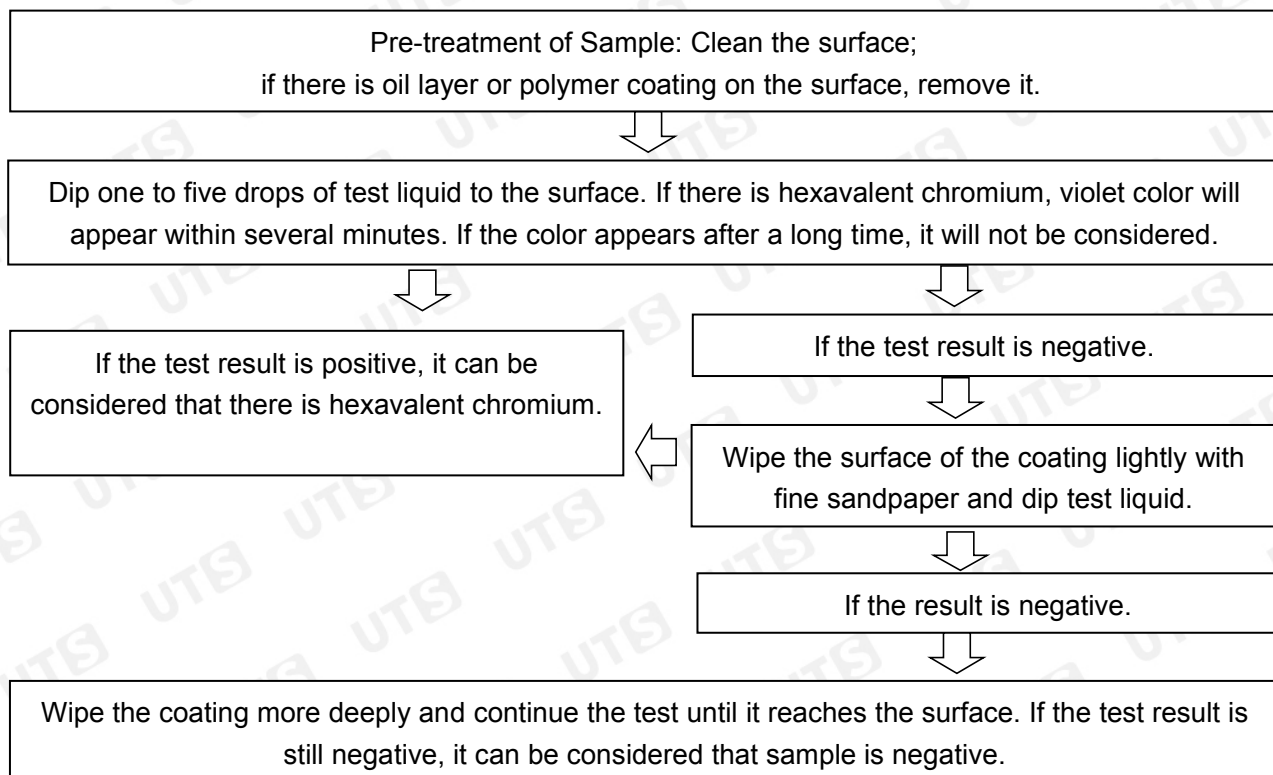
Report Date: 2025/12/22

2. Test for Hg Content



3. Test for Chromium (VI) Content

a) Point test method:



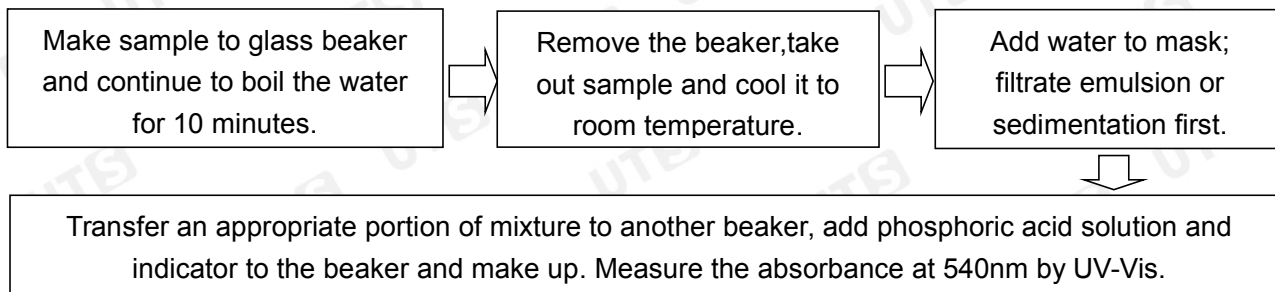
.....To be continued.....

TEST REPORT

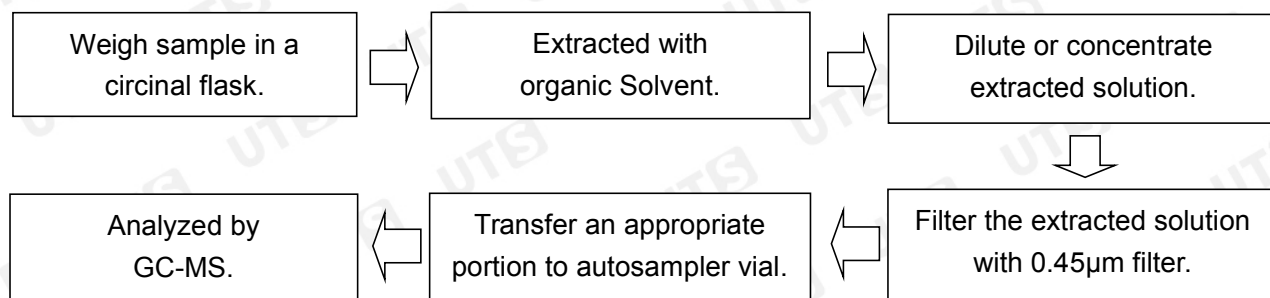
Report No.:UTS25120146M02E

Report Date: 2025/12/22

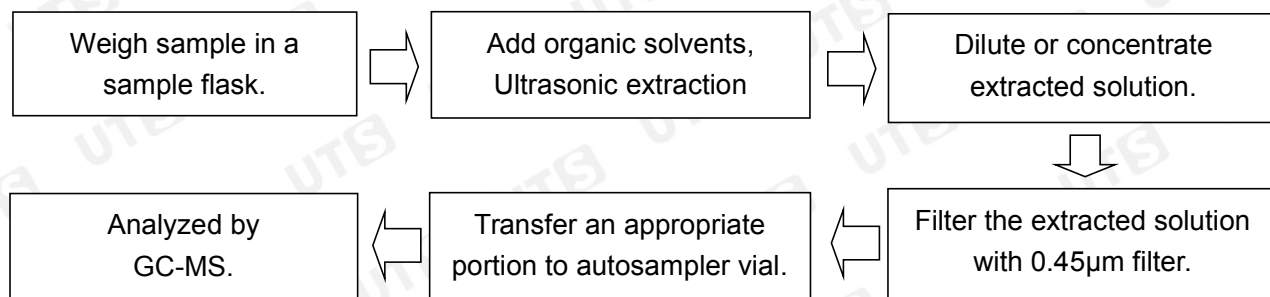
b) Boiling water extraction method:



4. Test for PBBs&PBDEs Content



5. Test for HBCDD Content



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

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5. Sample photo(s)



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

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