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Test Report

Report No.: DNT2412030034C5066-06875R1
(This report supersedes former report DNT2412030034C5066-06875)

Applicant: Dezhou Zhongying Automotive Supplies Sales Co., Ltd.

Address: No. 59 Yingbin Road, Decheng District, Dezhou City, Jingyuan

The samples and sample information for the following tests are provided and confirmed by the applicant

Product description: Plastic welder

Item No.: XCER-110

Manufacturer: Dezhou Zhongying Automotive Supplies Sales Co., Ltd.

Address: No. 59 Yingbin Road, Decheng District, Dezhou City, Jingyuan

Sample received date: Dec. 02, 2024

Sample resubmitted date: Dec. 10, 2024

Sample testing period: Dec. 02, 2024 to Dec. 10, 2024

Report issued date: Dec. 19, 2024

Test results: Please refer to next page(s).

Tested By: Jack Jack Zhang

Reviewed By: Leon Leon Hou

Approved By: Boly Peng Boly Peng

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

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Test Results:

Test Requested
European Directive 2011/65/EU and amendment (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

**RoHS test results:****Test Method:****A. Screening test by XRF spectroscopy**

XRF screening limits for regulated elements according to IEC 62321-3-1:2013

Element	Screening limit / mg/kg		MDL	
	Polymers and metals	Composite material	Polymers	Other material
Pb	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	10mg/kg	50mg/kg
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD \leq (50-3\sigma) < X < (150+3\sigma) \leq OL$	10mg/kg	50mg/kg
Hg	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	10mg/kg	50mg/kg
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$	10mg/kg	50mg/kg
Br	$BL \leq (300-3\sigma) < X$ (non-metal only)	$BL \leq (250-3\sigma) < X$	10mg/kg	50mg/kg

B. Chemical Test

Test Item(s)	Test Method	Analysis Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	10mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	10mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	10mg/kg	1000mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015 & IEC 62321-7-2:2017	UV-VIS	10mg/kg	1000mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	10mg/kg	1000mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	10mg/kg	1000mg/kg
Dibutyl Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
Benzylbutyl Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
Bis-(2-ethylhexyl)Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
Diisobutyl phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg

**Tested material list:**

No.	Description	Photo(s) of tested material
1	Green plastic	
2	Golden metal (screw)	
3	Silvery metal (screw)	
4	Clear laminated yellow/black printed white plastic with adhesive (sticker)	
5	Red plastic	
6	Black plastic	
7	Black plated silvery metal (spring)	
8	Silvery metal	
9	Silvery metal	
10	Transparent soft plastic	
11	Silvery metal	
12	White plastic	
13	Yellow plastic with adhesive (tape)	
14	Chocolate plated coppery coil	
15	Black plastic with adhesive (tape)	
16	Silvery metal plate	
17	Silvery metal	
18	Golden metal	
19	Transparent plastic (LED)	
20	White transparent plastic	
21	Red soft plastic (wire jacket)	
22	Black soft plastic (bushing)	
23	Blue soft plastic (wire jacket)	
24	Purple soft plastic (wire jacket)	
25	Black fabric	
26	Black plastic	
27	Blue plastic (case)	
28	Red plastic (case)	
29	Black plastic (case)	
30	Yellow plastic (case)	

Note: tested samples were specified by applicant.



Test Result(s):

No.	XRF screening Result					Chemical confirm Result (mg/kg)	Remark	Conclusion
	Pb	Cd	Hg	Cr	Br			
1	BL	BL	BL	BL	BL	---	---	PASS
2	BL	BL	BL	BL	N/A	---	---	PASS
3	BL	BL	BL	BL	N/A	---	---	PASS
4	BL	BL	BL	BL	BL	---	---	PASS
5	BL	BL	BL	BL	BL	---	---	PASS
6	BL	BL	BL	BL	X	PBBs&PBDEs:N.D	---	PASS
7	BL	BL	BL	BL	N/A	---	---	PASS
8	BL	BL	BL	BL	N/A	---	---	PASS
9	BL	BL	BL	BL	N/A	---	---	PASS
10	BL	BL	BL	BL	BL	---	---	PASS
11	BL	BL	BL	BL	N/A	---	---	PASS
12	BL	BL	BL	BL	BL	---	---	PASS
13	BL	BL	BL	BL	BL	---	---	PASS
14	BL	BL	BL	BL	N/A	---	---	PASS
15	BL	BL	BL	BL	BL	---	---	PASS
16	BL	BL	BL	BL	N/A	---	---	PASS
17	BL	BL	BL	BL	N/A	---	---	PASS
18	BL	BL	BL	BL	N/A	---	---	PASS
19	BL	BL	BL	BL	X	PBBs&PBDEs:N.D	---	PASS
20	BL	BL	BL	BL	BL	---	---	PASS
21	BL	BL	BL	BL	BL	---	---	PASS
22	BL	BL	BL	BL	BL	---	---	PASS
23	BL	BL	BL	BL	BL	---	---	PASS
24	BL	BL	BL	BL	BL	---	---	PASS
25	BL	BL	BL	BL	BL	---	---	PASS
26	BL	BL	BL	BL	BL	---	---	PASS
27	BL	BL	BL	BL	BL	---	---	PASS
28	BL	BL	BL	BL	BL	---	---	PASS
29	BL	BL	BL	BL	BL	---	---	PASS
30	BL	BL	BL	BL	BL	---	---	PASS



Test Item(s)	Dibutyl Phthalate (DBP) / (mg/kg)	Benzylbutyl Phthalate (BBP) / (mg/kg)	Bis-(2-ethylhex yl)Phthalate (DEHP) / (mg/kg)	Diisobutyl phthalate (DIBP) / (mg/kg)	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit	1000	1000	1000	1000	
No.	Result (mg/kg)				
4	N.D	N.D	N.D	N.D	PASS
13	N.D	N.D	N.D	688	PASS
15	N.D	N.D	N.D	N.D	PASS
21	N.D	N.D	N.D	N.D	PASS
22	N.D	N.D	N.D	N.D	PASS
23	N.D	N.D	N.D	N.D	PASS
24	N.D	N.D	N.D	N.D	PASS
1+5+6+10+12	N.D	N.D	N.D	N.D	PASS
19+20+25+26	N.D	N.D	N.D	N.D	PASS
27+28+29+30	N.D	N.D	N.D	N.D	PASS

Remark:

1. BL = below the limit
2. OL = over the limit
3. X = inconclusive, chemical confirm test is needed
4. N/A = not applicable
5. mg/kg = milligram per kilogram = ppm
6. N.D = not detected
7. Negative = The Cr⁶⁺ concentration is below the limit of quantification. The coating is considered a non- Cr⁶⁺ based coating.
8. Positive = The Cr⁶⁺ concentration is above the limit of quantification and the statistical margin of error, The sample coating is considered to contain Cr⁶⁺.
9. The limit for composite test should be divided by the mixed number.
10. Results shown of samples 21 ~ 24 were based on resubmitted materials.

Note:

1. When perform screening tests, it is the result on total Br while test item on restricted substances is PBBs/PBDEs, it is the result on total Cr while test item on restricted substances is Cr⁶⁺.
2. Pb, Cd, Hg, Cr and Br results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is needed to be performed, if the concentration falls into the inconclusive area according to IEC 62321-3-1:2013.
3. For the XRF screening test for RoHS elements, the reading may be different to the actual content in the sample be of non-uniformity composition.

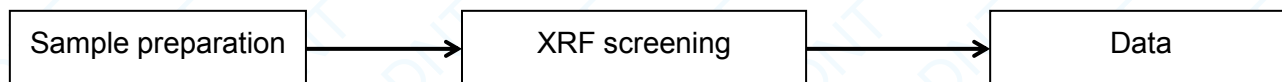


4. #the lead content of tested component exceeded 1000ppm, but less than 40000ppm, it can comply with the RoHS directive, as it is exempted to contain lead with up to 40000ppm according to item 6(c) of annex III of 2011/65/EU, as per applicant's declaration.

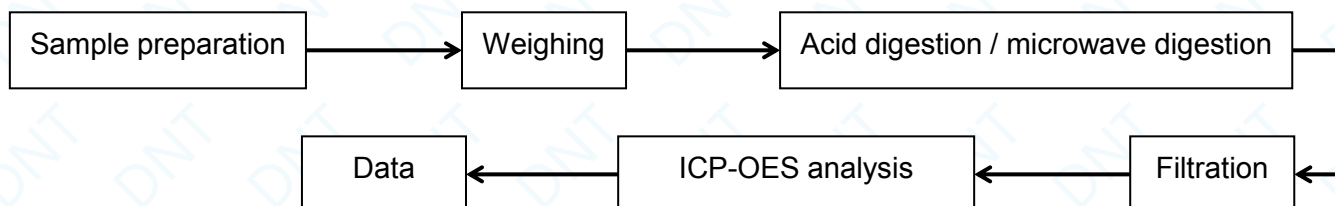


Test flow chart

1. XRF screening test flow:

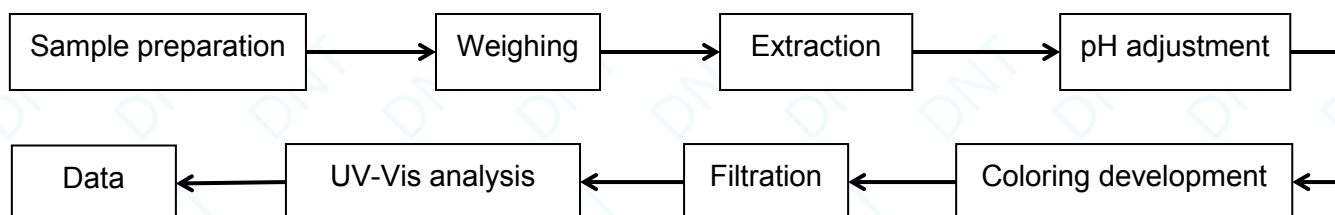


2. Pb/Cd/Hg chemical confirm test flow:

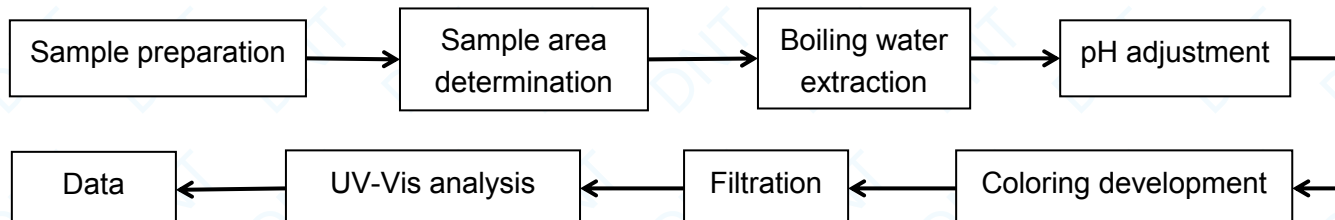


3. Hexavalent Chromium (Cr⁶⁺) chemical confirm test flow:

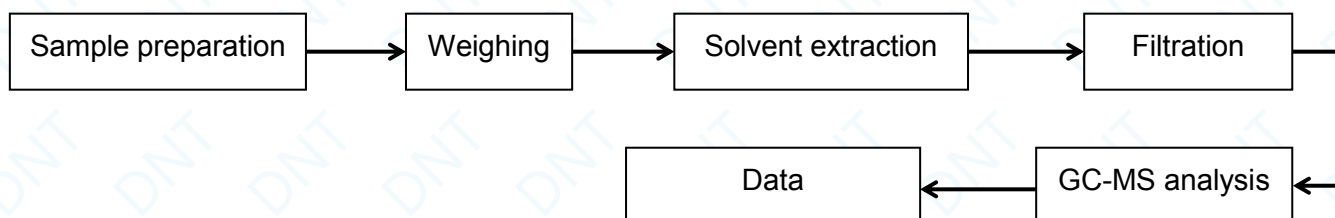
A. For non-metal material:



B. For metal material:



4. PBBs and PBDEs chemical confirm test flow:



5. Phthalates test flow:

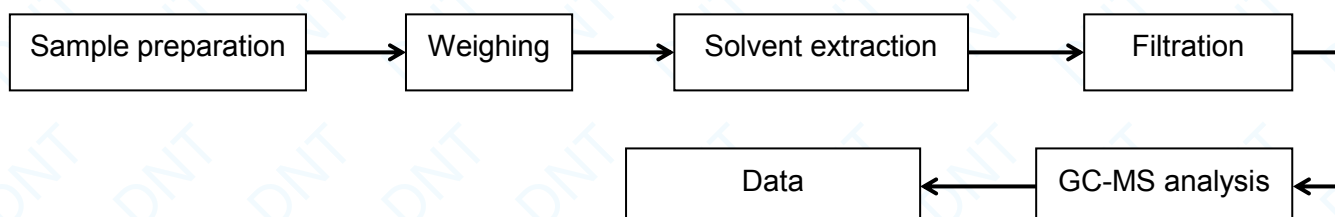




Photo documentation



*** End of Report ***



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