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## Test Report

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Report No. : AGC05443250938-001

**SAMPLE NAME** : Electric milk frother  
**MODEL NAME** : MO2871  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Sep. 26, 2025

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Applicant : MID OCEAN BRANDS B.V.  
Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.  
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

**Report on the submitted sample(s) said to be:**

Sample Name : Electric milk frother  
Model : MO2871  
Vendor code : 119376  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample Received Date : Sep. 22, 2025  
Testing Period : Sep. 22, 2025 to Sep. 26, 2025  
Test Requested : Selected test(s) as requested by client.

**Test Requested:****Conclusion**

2011/65/EU (RoHS) and its amendment directive (EU) 2015/863

- Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

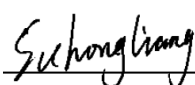
- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Pass

Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2020)9

- Specific migration of Heavy metal

Pass

Approved by: 

Suhongliang

Technical Director

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## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Sep. 26, 2025	Valid	Initial release

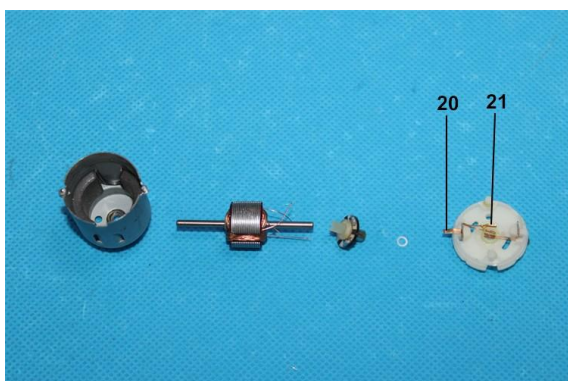
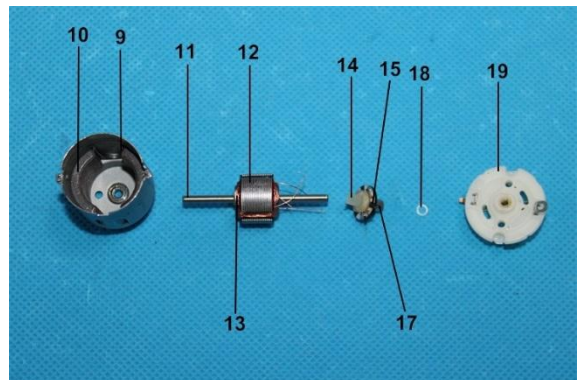
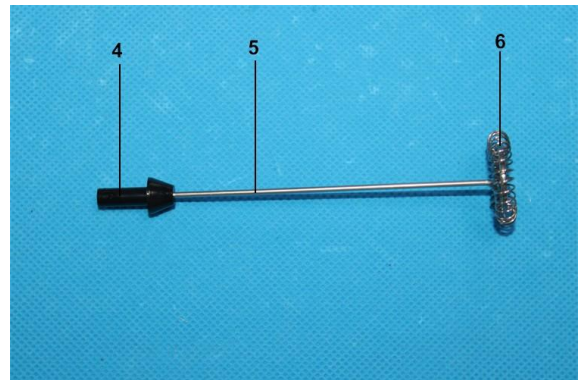
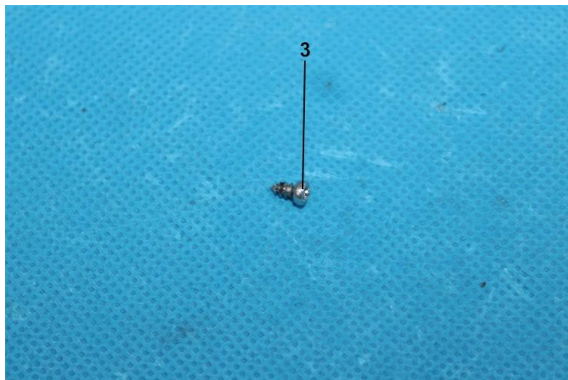
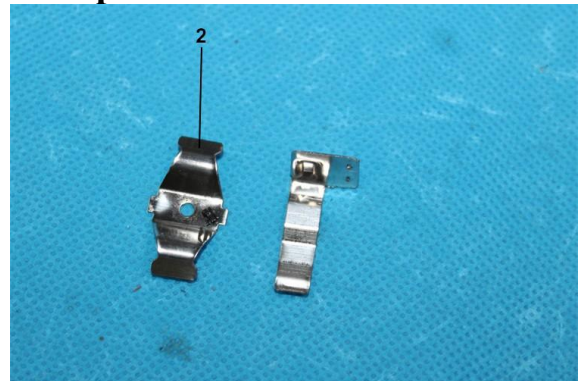
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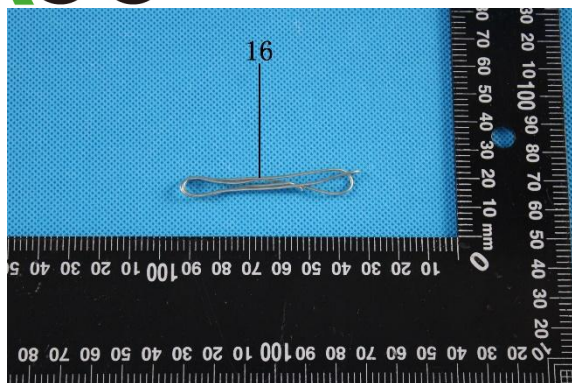
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## The photo of the sample



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The photo of AGC05443250938-001 is for use only with the original report.

### Test Point Description

Test point	Test module	Test parts	Test point description
Electric milk frother Model: MO2871			
1	---	Outer shell	Black plastic shell
2	---		Silver metallic sheet
3	---	---	Silver screw
4	---	---	Black plastic buckle
5	---	Stirring rod	Metal rod
6	---		Metal wire
7	---	Motor	Metallic bearing
8	---		Metallic shell
9	---		Metallic circlip
10	---		Black magnet
11	---		Metallic shaft
12	---		Silicon lamination
13	---		Enameled wire
14	---		Milk white plastic framework
15	---		Black resistance
16	---		Solder
17	---		Metal terminal
18	---		White washer
19	---		White plastic bottom shell
20	---		Pure copper sheet
21	---		Brass sheet
22	---	---	Stirring rod

Note: "---" = The test point exists alone in the sample and is not attached to the test module or test parts.

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### Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%,

N/A= Not Applicable

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019/CNAS-GL015:2022.

### 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863

#### - Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Test Item	Test Method/ Instrument	MDL	Maximum Limit
Lead (Pb)	IEC 62321-3-1:2013/ XRF	/	1000mg/kg
Cadmium (Cd)		/	100mg/kg
Mercury (Hg)		/	1000mg/kg
Total Chromium		/	/
Total Bromine		/	/
Chemistry Method			
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	2mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	2mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	2mg/kg	1000mg/kg
Non-metal: Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
Metal: Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-1:2015/ UV-Vis	0.1µg/cm²	/
Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
PolybrominatedDiphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg
Butylbenzyl phthalate (BBP)		50mg/kg	1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg

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Test point	Test Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
1	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	BL	/	
			/	
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	
2	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	IN	N.D.	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	
3	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	
4	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	BL	/	
			/	
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	

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5	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	IN	N.D.	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	
6	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	IN	N.D.	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	
7	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	
8	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	

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9	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	
10	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	BL	/	
			/	
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	
11	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	
12	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	

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13	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	BL	/	
			/	
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	
14	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	BL	/	
			/	
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	
15	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	BL	/	
			/	
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	
16	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	

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17	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	
18	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	BL	/	
			/	
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	
19	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	BL	/	
			/	
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	
20	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	

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21	Pb	BL	/	Conformity
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
	Br	N/A	/	
			/	
	DIBP	N/A	/	
	DBP	N/A	/	
	BBP	N/A	/	
	DEHP	N/A	/	

Remark: The samples of the following test points were resubmitted on September 26, 2025:16

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	N/A	$BL \leq 250 - 3\sigma < X$

Remark:

- (1) BL= Below Limit, OL= Over limited, IN = Inconclusive, Scanning by XRF and detected by chemical method, N/A = Not applicable.
- (2) Results were obtained by XRF for primary scanning, 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 above warning value.
- (3) The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (4) Boiling-water-extraction:(X represents the results of the tested sample)

Number	Colorimetric result (Cr(VI) concentration)	Judgement
1	$X < 0.1 \mu\text{g}/\text{cm}^2$	Negative
2	$0.1 \mu\text{g}/\text{cm}^2 \leq X \leq 0.13 \mu\text{g}/\text{cm}^2$	Uncertainty
3	$X > 0.13 \mu\text{g}/\text{cm}^2$	Positive

Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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(5) This XRF Scanning 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 scanning 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.

#### **Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50**

##### **- Polycyclic-aromatic Hydrocarbons (PAHs) Content**

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1+4
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.
Chrysene(CHR)	mg/kg	1	0.1	N.D.
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.
Conclusion				Conformity

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1+4

#### **Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)**

Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity
Benzo[a]pyrene(BaP)	50-32-8	≤ 1	≤ 1	≤ 0.5
Benzo[e]pyrene(BeP)	192-97-2	/	≤ 1	≤ 0.5
Benzo[a]anthracene(BaA)	56-55-3	/	≤ 1	≤ 0.5
Benzo[b]fluoranthene(BbF)	205-99-2	/	≤ 1	≤ 0.5
Benzo[j]fluoranthene(BjFA)	205-82-3	/	≤ 1	≤ 0.5
Benzo[k]fluoranthene(BkF)	207-08-9	/	≤ 1	≤ 0.5
Chrysene(CHR)	218-01-9	/	≤ 1	≤ 0.5
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	≤ 1	≤ 0.5

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Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	≤ 10	/	/

**Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2020)9**

**- Specific migration of Heavy metal**

Test Method: EDQM (2024)

Item(s)	Unit	Limit		MDL	Test result(s)	
		1 <sup>st</sup> +2 <sup>nd</sup> migration	3 <sup>rd</sup> migration		22	
					1 <sup>st</sup> +2 <sup>nd</sup> migration	3 <sup>rd</sup> migration
Simulant Used: 0.5% Citric acid; Test Condition: 100°C, 1h						
Barium (Ba)	mg/kg	8.4	1.2	0.1	N.D.	N.D.
Copper (Cu)	mg/kg	28	4	0.1	N.D.	N.D.
Iron (Fe)	mg/kg	280	40	0.1	1.323	N.D.
Tin (Sn)	mg/kg	700	100	0.1	N.D.	N.D.
Chromium (Cr)	mg/kg	7	1	0.01	0.074	N.D.
Manganese (Mn)	mg/kg	3.85	0.55	0.1	N.D.	N.D.
Zinc (Zn)	mg/kg	35	5	0.1	N.D.	N.D.
Aluminium (Al)	mg/kg	35	5	0.1	N.D.	N.D.
Lithium (Li)	mg/kg	0.336	0.048	0.01	N.D.	N.D.
Beryllium (Be)	mg/kg	0.07	0.01	0.005	N.D.	N.D.
Vanadium (V)	mg/kg	0.07	0.01	0.005	N.D.	N.D.
Nickel (Ni)	mg/kg	0.98	0.14	0.01	N.D.	N.D.
Cobalt (Co)	mg/kg	0.14	0.02	0.01	N.D.	N.D.
Arsenic (As)	mg/kg	0.014	0.002	0.002	N.D.	N.D.
Molybdenum (Mo)	mg/kg	0.84	0.12	0.01	N.D.	N.D.
Silver (Ag)	mg/kg	0.56	0.08	0.01	N.D.	N.D.
Cadmium (Cd)	mg/kg	0.035	0.005	0.002	N.D.	N.D.
Antimony (Sb)	mg/kg	0.28	0.04	0.01	N.D.	N.D.
Mercury (Hg)	mg/kg	0.021	0.003	0.002	N.D.	N.D.
Thallium (Tl)	mg/kg	0.007	0.001	0.001	N.D.	N.D.
Lead (Pb)	mg/kg	0.07	0.01	0.01	N.D.	N.D.
Zirconium (Zr)	mg/kg	14	2	0.01	N.D.	N.D.
Magnesium (Mg)	mg/kg	/	/	0.01	N.D.	N.D.
Titanium (Ti)	mg/kg	/	/	0.01	N.D.	N.D.
Conclusion					Conformity	Conformity

Note:

Results from all three migration are to be considered for compliance: Result of 3<sup>rd</sup> migration shall not exceed the SRL and Sum of result of 1<sup>st</sup> and 2<sup>nd</sup> migration shall not exceed 7 times of SRL.

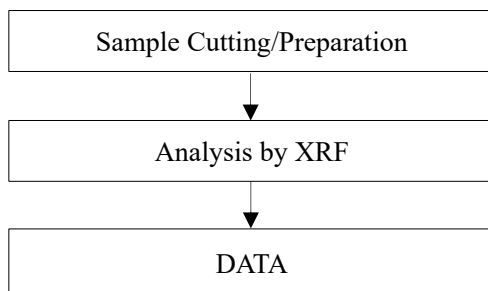
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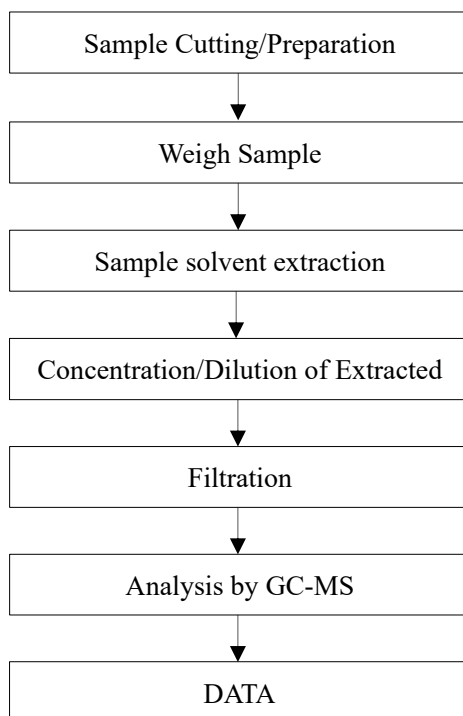
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### Test Flow Chart of XRF



### Test Flow Chart of Phthalates



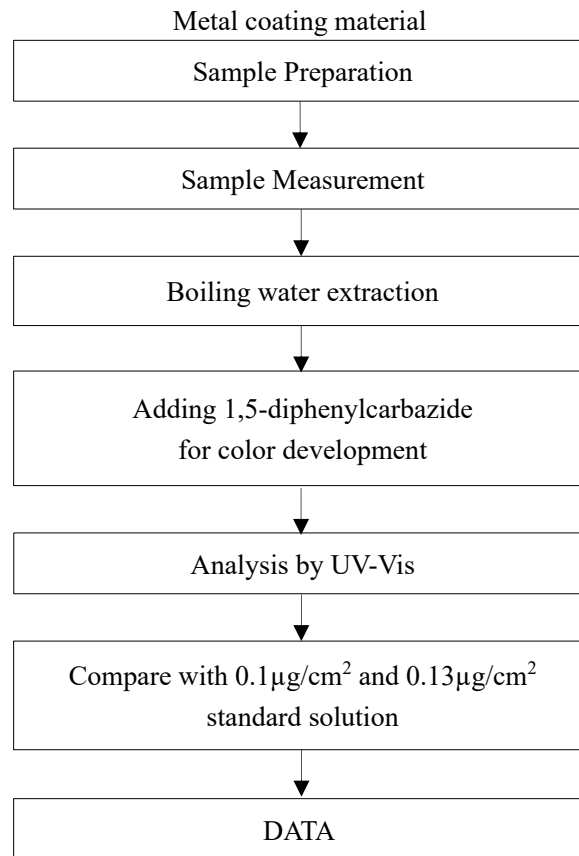
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### Test Flow Chart of Hexavalent Chromium ( $\text{Cr}^{6+}$ )



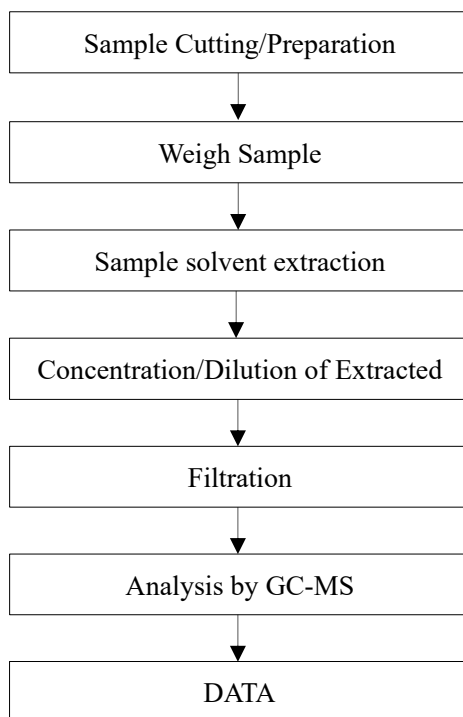
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### Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

\*\*\* End of Report \*\*\*

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