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# Test Report

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Report No. : AGC05443240709-001

**SAMPLE NAME** : Metal mug & carabiner handle  
**MODEL NAME** : MO8313  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Jul. 16, 2024

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Applicant : MID OCEAN BRANDS B.V.  
Address : 7/F, Kings Tower, 111 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 : Metal mug & carabiner handle  
Model : MO8313  
Vendor code : 115253  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample Received Date : Jul. 10, 2024  
Testing Period : Jul. 10, 2024 to Jul. 16, 2024  
Test Requested : Selected test(s) as requested by client.


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

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63  
- Lead(Pb) 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(2013)9  
- Specific migration of Heavy metal

Pass

Approved by: 

Suhongliang, Leon

Technical Director

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## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Jul. 16, 2024	Valid	Initial release

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**The photo of the sample**



The photo of AGC05443240709-001 is for use only with the original report.

**Test Point Description**

Test point	Test point description
1-1	Metal cup body
1-2	Metal nails
1-3	Silver handle
1-4	Black handle

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**Test Results:**

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

**Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63**

**- Lead(Pb) Content**

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-1	1-2
Lead(Pb)	mg/kg	500	10	N.D.	N.D.
Conclusion				Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-3	1-4
Lead(Pb)	mg/kg	500	10	109	N.D.
Conclusion				Conformity	Conformity

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**- Specific migration of heavy metal:**

Test Method: With reference to EDQM Technical Guide on Metals and alloys used in food contact materials 2013.

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1 <sup>st</sup> + 2 <sup>nd</sup> extractives	
			1-1	
Barium (Ba)	0.5% Citric acid, 70°C, 2h ICP-OES	0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	3.411	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	0.126	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminium (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)		0.005	N.D.	0.07
Nickel (Ni)		0.01	0.135	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)	0.01	N.D.	0.07	
Magnesium (Mg)	0.01	0.048	/	
Titanium (Ti)	0.01	N.D.	/	
<b>Conclusion</b>		/	<b>Conformity</b>	/

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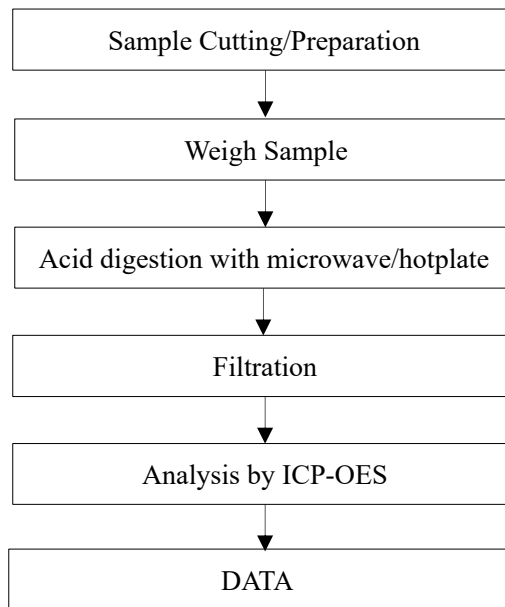
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Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3 <sup>rd</sup> extractives	
			1-1	
Barium (Ba)	0.5% Citric acid, 70°C, 2h ICP-OES	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	0.302	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	0.020	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminium (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)		0.005	N.D.	0.01
Nickel (Ni)		0.01	0.013	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)		0.01	N.D.	0.01
Magnesium (Mg)	0.01	N.D.	/	
Titanium (Ti)	0.01	N.D.	/	
<b>Conclusion</b>		/	<b>Conformity</b>	/

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### Test Flow Chart of Heavy Metal Content



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