
Test Report

Report No. : AGC11890251104-001

SAMPLE NAME : SteelMug RCS Recycled Steel 220 ml
MODEL NAME : 4581
APPLICANT : CGI
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Nov. 17, 2025

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Applicant : CGI
Address : Haverdijk 5, 5704 RC, Helmond, Netherlands
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 : SteelMug RCS Recycled Steel 220 ml
Model : 4581
Purchase order : 4500167870
Colors : 1
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : Nov. 10, 2025
Testing Period : Nov. 10, 2025 to Nov. 17, 2025
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

List of restrictions applicable under UK REACH Regulation S.I. 2019 No. 758 and its amendment, entry 63
- Lead(Pb) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23
-Cadmium(Cd) Content

Pass

List of restrictions applicable under UK REACH Regulation S.I. 2019 No. 758 and its amendment, entry 23
- Cadmium(Cd) Content

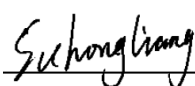
Pass

German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30&31, Regulation 1935/2004/EC
- Sensory Analysis

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
/	Nov. 17, 2025	Valid	Initial release

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The photo of the sample



The photo of AGC11890251104-001 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1	Metal inner mug
1-2	Metal outer mug

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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.

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

List of restrictions applicable under UK REACH Regulation S.I. 2019 No. 758 and its amendment, 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

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23

-Cadmium(Cd) Content

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

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-1	1-2
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.
Conclusion				Conformity	Conformity

List of restrictions applicable under UK REACH Regulation S.I. 2019 No. 758 and its amendment, entry 23

- Cadmium(Cd) Content

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

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-1	1-2
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.
Conclusion				Conformity	Conformity

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German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30&31, Regulation 1935/2004/EC

- Sensory Analysis

Test Methods: DIN 10955:2024

Test Item(s)	Maximum Permissible Limit	Test Result(s)					
		Whole product					
		A	B	C	D	E	F
Sensorial examination odour(point scale)	2.5	0	0	0	0	0	0
Sensorial examination taste(point scale)	2.5	0	0	0	0	0	0
Conclusion		Conformity					

Remark:

Grade	Odour/ Taste
0	No difference from natural sample
1	Just barely perceivable difference
2	Weak but definable difference
3	Clearly perceivable difference
4	Strong difference

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)	
					1-1	
		1 st +2 nd migration	3 rd migration		1 st +2 nd migration	3 rd migration
Simulant Used: 0.5% Citric acid ; Test Condition: 70°C , 2h						
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	2.998	0.950
Tin (Sn)	mg/kg	700	100	0.1	N.D.	N.D.
Chromium (Cr)	mg/kg	7	1	0.01	0.056	0.017
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	0.068	0.021
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.

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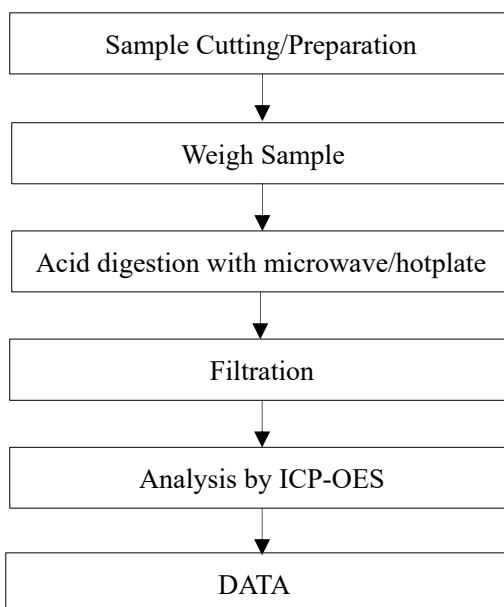
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Item(s)	Unit	Limit		MDL	Test result(s)	
					1-1	
		1 st +2 nd migration	3 rd migration		1 st +2 nd migration	3 rd migration
Thallium (Tl)	mg/kg	0.007	0.001	0.001	N.D.	N.D.
Lead (Pb)	mg/kg	0.07	0.01	0.01	N.D.	N.D.
Zirconium (Zr)	mg/kg	14	2	0.01	N.D.	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 3rd migration shall not exceed the SRL and Sum of result of 1st and 2nd migration shall not exceed 7 times of SRL.

Test Flow Chart of Heavy Metal Content



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*** End of Report ***

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