

Test Report

Number: SHAH01956515

Applicant: PF CONCEPT INTERNATIONAL COOPERATIEF U.A
SCHIPHOLWEG 59
2316 ZL LEIDEN
THE NETHERLANDS
Attn: JASMINE GU

Date: 19 May, 2026

Sample Description:

Item Name : Alps carabiner mug
Item No. : 10056300-BK, 10056301-BL, 10056302-RD, 10056361-GR
Vendor : #10159/#14188
Goods Exported To : Europe
Country Of Origin : China
P.O. No. : PO#675426
Date Sample Received : 06 May, 2026
Testing Period : 06 May, 2026 To 19 May, 2026

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

Tested Sample	Standard	Result
Tested Component of Submitted Sample	Dutch Commodities Act on Packagings and Consumer Articles Regulation (Warenwetregeling verpakkingen en gebruiksartikelen) Annex A Chapter IV on Overall Migration for Metal Materials	Pass
	European Resolution CM/Res (2020)9 and the Supplementary Technical Guide on Metals and Alloys Used in Food Contact Materials and Articles(EDQM 2nd Edition, 2024) on Specific Migration of Heavy Metal	Pass
	Lead content requirement in Commission Regulation (EU) 2015/628 of 22 April 2015 Amending Annex XVII Entry 63 of the REACH Regulation (EC) No. 1907/2006	Pass
	Nickel content requirement in Annex XVII Item 27 of The REACH Regulation (EC) No.1907/2006& Amendment No.552/2009	Pass

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Bill Zhang
General Manager



Test Report

Number: SHAH01956515

Tests Conducted

1 Dutch Commodities Act on Packagings and Consumer Articles Regulation (Warenwetregeling verpakkingen en gebruiksartikelen) Annex A Chapter IV on Overall Migration for Metal Materials

As per Dutch Commodities Act on Packagings and Consumer Articles Regulation (Warenwetregeling verpakkingen en gebruiksartikelen) Annex B.

I. Test Condition:

<u>Tested Component</u>	<u>Food Simulant</u>	<u>Time (hour)</u>	<u>Temperature (°C)</u>
(1)	3% (w/v) Acetic Acid	2	70
	50% (v/v) Ethanol	2	70

II. Test Result:

Result (mg/kg)					Limit (mg/kg)
Food Simulant	(1)				
	1 st	2 nd	3 rd		
3% (w/v) Acetic Acid	ND	ND	ND	60	
50% (v/v) Ethanol	ND	ND	ND	60	

Requirement:

Result of 3rd migration < OML, and

Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.

Remark: ND = Not detected

Reporting Limit = 10 mg/kg

As per client's request, the above condition and food simulant was used for the test.

Tested Component: See component list in the last section of this report.

To be continued



Test Report

Number: SHAH01956515

Tests Conducted

2 European Resolution CM/Res(2020)9 and the Supplementary Technical Guide on Metals and Alloys Used in Food Contact Materials and Articles(EDQM 2nd Edition, 2024) on Specific Migration of Heavy Metal

With reference to EU Resolution CM/Res (2020)9 and the supplementary Technical Guide on metals and alloys used in food contact materials and articles(EDQM 2nd Edition,2024) and JRC guideline 2021, migration test was conducted and heavy metal content were determined by Inductively Coupled Plasma Mass Spectrometer (ICP-MS) with reference to ISO 17294-2: 2016.

I. Test Condition:

Food Simulant: Citric Acid (5 g/L)

Temperature: 40 °C

Time: 24 hours

II. Test Result:

Test Item	Result (1 st Test) (mg/kg)	Result (2 nd Test) (mg/kg)	Result (1 st Test) + Result (2 nd Test) (mg/kg)	7*Limit (mg/kg)	Result (3 rd Test) (mg/kg)	Limit (mg/kg)
			(1)		(1)	
Silver (Ag)	<0.01	<0.01	<0.01	0.56	<0.01	0.08
Aluminium (Al)	<1	<1	<1	35	<1	5
Chromium (III) (Cr III)^	0.06	<0.05	0.06	7	<0.05	1
Cobalt (Co)	0.004	<0.004	0.004	0.14	<0.004	0.02
Copper (Cu)	<0.5	<0.5	<0.5	28	<0.5	4
Iron (Fe)	2	1	3	280	<1	40
Manganese (Mn)	<0.1	<0.1	<0.1	3.85	<0.1	0.55
Molybdenum(Mo)	<0.02	<0.02	<0.02	0.84	<0.02	0.12
Nickel (Ni)	0.06	0.03	0.09	0.98	0.02	0.14
Tin (Sn)	<10	<10	<10	700	<10	100
Vanadium (V)	<0.002	<0.002	<0.002	0.07	<0.002	0.01
Zinc (Zn)	<1	<1	<1	35	<1	5
Zirconium (Zr)	<1	<1	<1	14	<1	2
Antimony (Sb)	<0.005	<0.005	<0.005	0.28	<0.005	0.04
Arsenic (As)	<0.0004	<0.0004	<0.0004	0.014	<0.0004	0.002
Barium (Ba)	<0.1	<0.1	<0.1	8.4	<0.1	1.2
Beryllium (Be)	<0.002	<0.002	<0.002	0.07	<0.002	0.01
Cadmium (Cd)	<0.001	<0.001	<0.001	0.035	<0.001	0.005
Lead (Pb)	<0.002	<0.002	<0.002	0.070	<0.002	0.010
Lithium (Li)	<0.005	<0.005	<0.005	0.336	<0.005	0.048
Mercury (Hg)	<0.0005	<0.0005	<0.0005	0.021	<0.0005	0.003
Thallium (Tl)	0.00004	0.00010	0.00014	0.007	0.00004	0.0001
Magnesium (Mg)	<5	<5	<5	--	<5	--
Titanium (Ti)	<0.1	<0.1	<0.1	--	<0.1	--

To be continued

Test Report

Number: SHAH01956515

Tests Conducted

Ratio of food contact surface area to volume of component (1) used to establish the compliance of material or article = 1.76 dm² : 140 mL.

Remark: ^ = Chromium (III) content was derived from migration results of total Chromium.

The submitted component is a repeated use article. The migration test was carried out three times on the same article. The sum of the results of the first and second tests should not exceed seven times the limit (Result 1st test + Result 2nd test < 7 * limit) and the Result 3rd test shouldn't exceed the limit.

Tested Component: See component list in the last section of this report.

3 Lead (Pb) Content (REACH Regulation (EC) No 1907/2006 Annex XVII Entry 63)

With reference to method IEC 62321-5:2013, microwave digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (%)			Reporting Limit (%)	Limit (%)
	(1+2)	(3+4+5)	(6+7)		
Lead (Pb)	ND	0.0070	ND	0.001	0.05

The limit was quoted according to Commission Regulation (EU) 2015/628 amending the REACH Regulation (EC) No 1907/2006 Annex XVII (Entry 63) for Lead content in articles which may be placed in the mouth by children during normal or reasonably foreseeable conditions of use.

Remark: ND = Not detected (Less than reporting limit)

Tested Components: See component list in the last section of this report.

To be continued



Test Report

Number: SHAH01956515

Tests Conducted

4 Release of Nickel for Direct Prolonged Skin Contact Products (Coated Item) (EU REACH Annex XVII Entry 27)

As per EN 12472: 2020 and EN 1811: 2023, by Inductively Coupled Argon Plasma Mass Spectrometry (ICP-MS) analysis.

Tested Component	Trial	Sample Area (cm ²)	Volume of Test Solution (ml)	Result Δ ($\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$)
(2)	1	9.2	9.2	ND
	2	9.2	9.2	ND
	3	9.2	9.2	ND
(3)	1	31	31	ND
	2	31	31	ND
	3	31	31	ND
(4)	1	31	31	ND
	2	31	31	ND
	3	31	31	ND
(5)	1	31	31	ND
	2	31	31	ND
	3	31	31	ND
(6)	1	31	31	ND
	2	31	31	ND
	3	31	31	ND
(7)	1	0.9	0.9	ND
	2	0.9	0.9	ND
	3	0.9	0.9	ND

Requirement: $0.5 \mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$

Remark: Detection Limit = $0.05 \mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$
ND=Not Detected (Less than detection limit)

Δ = According to EN 1811:2023, compliance decision was made based on the following rules.

Limit ($\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$)	Result($\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$)	Compliance Assessment
0.5	≤ 0.88	Pass
	> 0.88	Fail

Tested Components: See component list in the last section of this report.

To be continued



Test Report

Number: SHAH01956515

Tests Conducted



Picture of sample

Components List:

- 1 Silver color metal. (inner body)-SS304
- 2 Silver color metal. (outer body)-SS201
- 3 Silver color metal with green plating. (handle)
- 4 Silver color metal with blue plating. (handle)
- 5 Silver color metal with black plating. (handle)
- 6 Silver color metal with red plating. (handle)
- 7 Silver color metal. (screw)-SS201

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Ltd., Shanghai