

Test Report **No.: 70.431.21.17574.01**
Dated: 2022-01-13



Applicant: POLYCONCEPT GBS
Address: 4/F., HONGQIAO RONGGUANG BLDG., 11 CHANGSHUN ROAD SHANGHAI,
200051, PR CHINA
Product Name: Nordre insulated mug
Model No.: 10068001 – WH / 10068050 – BL
10068062 – GR / 10068090 – BK
PO/Order No.: #651682
Manufacturer: #11104
Factory Code: #13851
Country of Origin: CHINA
Country of Destination: EU
Receipt Date of Sample: 2021-12-24
Date of Testing: 2021-12-24 to 2022-01-13
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. Total Cadmium Content	Pass*
2. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
3. Total Lead Content	Pass*
4. Dutch-Verpakkingen en Gebruiksartikelen (Warenwet Packaging and Consumer Articles) Annex Part A, Chapter IV & chapter X - Overall Migration Test	Pass
5. EU- CM/RES (2013) 9 & GUIDELINES ON METALS AND ALLOYS -Extractable Heavy Metals	Pass

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. mg/L = milligram per litre
6. mg/article = milligram per article
7. The migration results in this report were tested and expressed based on repeated use articles.
8. The testing approach, the testing methods, and the reported results in this report demonstrate compliance or non-compliance to the client's requirements which were mutually agreed at the contract review and stipulated in the quotation. The testing approach, the testing methods, and the reported results may not or only partially fulfil the associated requirements of the applicable regulations.
9. *= Conclusion was drawn according to client's specification

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TÜV SÜD Certification and Testing (China) Co.,Ltd. Shanghai Branch
Testing Center

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Note:

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.
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For further details, please see "Testing and certification regulation", chapter A-3.4
For full version, please visit: EN : <https://www.tuvsud.cn/zh-cn/resource/terms-and-conditions---en> ; SCN: <https://www.tuvsud.cn/zh-cn/terms-and-conditions> ; TCN: <https://www.tuvsud.com/zh-tw/terms-and-conditions>
- (2) The results relate only to the items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) **Disclaimer Measurement Uncertainty:**
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

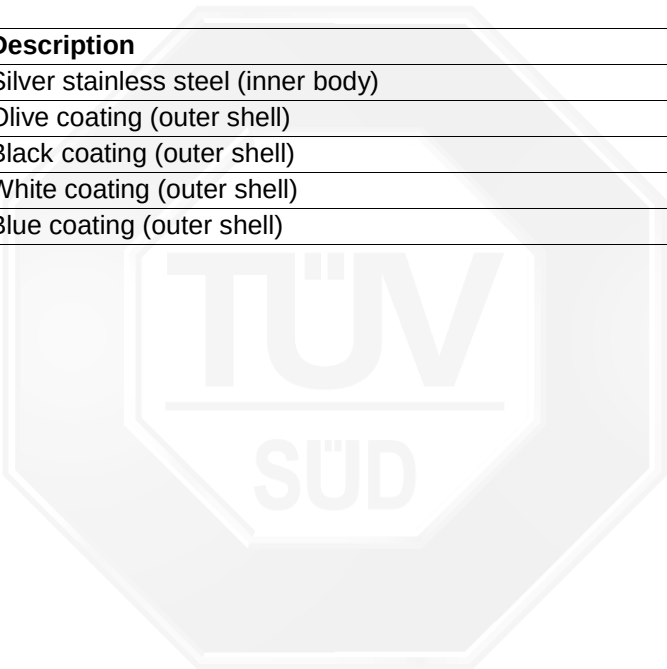
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Description of the Tested Subject

Sample	Description	Photo
001	Nordre insulated mug 10068001 – WH / 10068050 – BL 10068062 – GR / 10068090 – BK	

T. No	Sample	Description
T1	002	Silver stainless steel (inner body)
T2	003	Olive coating (outer shell)
T3	004	Black coating (outer shell)
T4	005	White coating (outer shell)
T5	006	Blue coating (outer shell)



Test Results

1. Total Cadmium Content

Test with reference to Acid digestion and EN 1122:2001 Method B, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
003+004	mg/kg	5	<100	<5.0	Pass
005+006	mg/kg	5	<100	<5.0	Pass

Remark: 1. Limit was according to client's requirement

2. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to in house method, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002	mg/kg	10.0	500	<10.0	Pass

3. Total Lead Content

Test with reference to in house method, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
003+004	mg/kg	10.0	90	<10.0	Pass
005+006	mg/kg	10.0	90	<10.0	Pass

Remark: 1. Limit was according to client's requirement

4. Dutch-Verpakkingen en Gebruiksartikelen (Warenwet Packaging and Consumer Articles) Annex Part A, Chapter IV & chapter X - Overall Migration Test

- With reference to EN1186-1:2002 for selection of test methods;
EN1186-9:2002 aqueous food simulants by article filling method;
- Sample 002 migration ratio: 380ml/2.21dm²

Simulant(s) Used	Test Condition	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
		002		
50% Ethanol	70°C for 2 hours	<20	60	Pass
3% Acetic acid	70°C for 2 hours	<20	60	Pass

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5. EU- CM/RES (2013) 9 & GUIDELINES ON METALS AND ALLOYS - Extractable Heavy Metals

- Test with reference to EN 13130-1:2004.
- Test condition: 0.5% Citric acid, 70°C for 2 hours

Test Item(s)	Result(s) [mg/kg]		Maximum Permissible Limit [mg/kg]		Conclusion
	002		3 rd migration	1 st + 2 nd migration	
	3 rd migration	1 st + 2 nd migration			-
Silver	<0.01	<0.02	0.08	0.56	Pass
Aluminium	<0.5	<1.0	5	35	Pass
Cobalt	<0.01	<0.02	0.02	0.14	Pass
Chromium	<0.02	<0.04	0.25	1.75	Pass
Copper	<0.2	<0.4	4	28	Pass
Iron	<1.0	<2.0	40	280	Pass
Magnesium	<0.05	<0.1	--	--	--
Manganese	<0.2	<0.4	1.8	12.6	Pass
Molybdenum	<0.01	<0.02	0.12	0.84	Pass
Nickel	<0.02	<0.04	0.14	0.98	Pass
Tin	<1.0	<2.0	100	700	Pass
Titanium	<0.05	<0.1	--	--	--
Vanadium	<0.01	<0.02	0.01	0.07	Pass
Zinc	<0.5	<1.0	5	35	Pass
Arsenic	<0.001	<0.002	0.002	0.014	Pass
Barium	<0.1	<0.2	1.2	8.4	Pass
Beryllium	<0.01	<0.02	0.01	0.07	Pass
Cadmium	<0.001	<0.002	0.005	0.035	Pass
Mercury	<0.001	<0.002	0.003	0.021	Pass
Lithium	<0.01	<0.02	0.048	0.336	Pass
Lead	<0.01	<0.02	0.01	0.07	Pass
Antimony	<0.01	<0.02	0.04	0.28	Pass
Thallium	<0.0001	<0.0002	0.0001	0.0007	Pass

- End of Test Report -