

TEST REPORT

Applicant: MAHLWERCK PORZELLAN GMBH
AN DER ALTEN SPINNEREI 1
D-83059 KOLBERMOOR
GERMANY

Attn: MR TOBIAS KOECKERT

Number: HKGH02875168 S2

Date: Sep 21, 2022

*This is to supersede Report No.
HKGH02875168 S1 dated Aug 08, 2022
due to information update*

Sample and Information provided by customer :

Item Name : **Audi shape 147**
Item No. : **Audi Sport - Item no.: 3292200100**
Audi Quattro - Item no.: 3292200200
Labelled Age Group : Not Specified.
Packaging Provided : Yes.
Country of Origin : Poland
Quantity : Each 45 Pieces.
Date sample received : May 12, 2022
Testing period : May 12, 2022 to May 25, 2022

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Vice President



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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) ASTM C738-94 (Reapproved 2020) - Leachable Lead and Cadmium for ceramic ware	Pass
(2) A.O.A.C. Official Methods of Analysis 18 th edition (2005) method 973.32 and 973.82 - Leachable Lead and Cadmium for ceramic ware	Pass
(3) Canada Consumer Product Safety Act, Glazed Ceramics and Glassware Regulations SOR/2016-175 - Leachable Lead and Cadmium content on Internal Surface	Pass
(4) Canada Consumer Product Safety Act, Glazed Ceramics and Glassware Regulations SOR/2016-175 - Leachable Lead and Cadmium content on Lip & Rim	Pass
(5) International Standard ISO 6486:1999 Part 2 - Leachable Lead and Cadmium for ceramic ware	Pass
(6) Leachable Lead and Cadmium content – drinking rim	See details enclosed
(7) 中华人民共和国食品安全国家标准 GB 4806.4-2016 陶瓷制品-章节 4.2 及 4.3 - 感官要求 - 理化指标 People's Republic of China, National Food Safety Standard GB 4806.4-2016 Ceramic Ware - Clauses 4.2 and 4.3 - Sensorial Requirement - Chemical Test Requirement	合格 Pass
(8) Applicant's requirement - Total Lead (Pb) Content	See details enclosed
(9) PORTARIA 27/1996 Anvisa, Anexo 1 – item 5.1.7 - Migração total ORDINANCE 27/1996 Anvisa, Annex 1 clause 5.1.7 - Total Migration	Conforme/ Pass
(10) ORDINANCE 27/1996 Anvisa, Anexo 2 - item 5.2.4 - Teor de chumbo e cádmio lixiviável PORTARIA 27/ 1996 Anvisa, Annex 2 clause 5.2.4 - Leachable Lead and Cadmium Content	Conforme / Pass
(11) MERCOSUR Resolution 55/1992 - Total Migration	Pass
(12) MERCOSUR Resolution 55/1992 - Leachable Lead and Cadmium	Pass



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<u>Requirement</u>	<u>Result</u>
(13) U.S. CFR Title 16 (CPSC Regulations) Part 1303 - Total Lead content in surface coating	Pass
(14) 40 CFR 751.401-751.413 Toxic Substances Control Act (TSCA) section 6 (h) - Persistent, Bioaccumulative and Toxic (PBT) Chemicals Content	Pass
(15) U.S. FDA Compliancy Policy Guide Part 7117.06(2005) Sec 545.400, 7117.07(2005) Sec 545.450 - Ceramic ware	Pass
California Proposition 65 for Ceramicware - Food and Beverage use products (Internal), Consent judgement no. SF-938430 - Leachable Lead and Cadmium content	Pass
(16) California Proposition 65 for food and beverage use products (lip and rim area), Consent judgement No. SF-436429 & SF-440811 - Leachable Lead and Cadmium content - lip and rim area	Pass
(17) California Proposition 65 for ceramicware - food and beverage use products, Consent judgement no. SF-436429/SF-440811 - Lead and Cadmium in surface wipe sample	Pass
(18) California Proposition 65 for ceramic mugs with colored artwork or designs on the exterior (lip and rim area), Consent judgement No. CV-216180 - Leachable Lead content - lip and rim area	Pass
(19) California Proposition 65 for Ceramic mugs with colored artwork or designs on the exterior, Consent Judgement No. CV-216180 - Lead in surface wipe sample	Pass
(20) Model Toxics in Packaging Legislation (packaging materials) - Toxic elements test	Pass
(21) Model Toxics in Packaging Legislation (Toxics in Packaging Clearinghouse TPCHE) - Ortho-Phthalate content	Pass

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc..>
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



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(1) Leachable Lead and Cadmium Content- Internal Surface

Test Method : U.S. FDA CPG 7117.06(2005) Sec 545.400, 7117.07(2005) Sec 545.450 and ASTM C738-94 (Reapproved 2020) by Atomic Absorption Spectrophotometric analysis.

Tested Component	Internal Depth (mm)	Volume of Leaching Solution (ml)	Lead (mg/l)	Cadmium (mg/l)
A(1)	83	350	<0.05	<0.03
A(2)	83	350	<0.05	<0.03
A(3)	82	340	<0.05	<0.03
A(4)	82	340	<0.05	<0.03
A(5)	82	340	<0.05	<0.03
A(6)	83	350	<0.05	<0.03
Limit : (Cups & Mugs)			0.5	0.5

Tested Component	Internal Depth (mm)	Volume of Leaching Solution (ml)	Lead (mg/l)	Cadmium (mg/l)
B(1)	83	350	<0.05	<0.03
B(2)	83	350	<0.05	<0.03
B(3)	82	340	<0.05	<0.03
B(4)	82	340	<0.05	<0.03
B(5)	82	340	<0.05	<0.03
B(6)	83	350	<0.05	<0.03
Limit : (Cups & Mugs)			0.5	0.5

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

Date sample received : May 12, 2022
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(2) Leachable Lead and Cadmium Content- Internal Surface

Test Method : U.S. FDA CPG 7117.06(2005) Sec 545.400, 7117.07(2005) Sec 545.450 and A.O.A.C. *Official Methods of Analysis* 18th edition (2005) method 973.32 and 973.82 by Atomic Absorption Spectrophotometric analysis.

Tested Component	Internal Depth (mm)	Volume of Leaching Solution (ml)	Lead (mg/l)	Cadmium (mg/l)
A(1)	83	350	<0.05	<0.03
A(2)	83	350	<0.05	<0.03
A(3)	82	340	<0.05	<0.03
A(4)	82	340	<0.05	<0.03
A(5)	82	340	<0.05	<0.03
A(6)	83	350	<0.05	<0.03
Limit : (Cups & Mugs)			0.5	0.5

Tested Component	Internal Depth (mm)	Volume of Leaching Solution (ml)	Lead (mg/l)	Cadmium (mg/l)
B(1)	83	350	<0.05	<0.03
B(2)	83	350	<0.05	<0.03
B(3)	82	340	<0.05	<0.03
B(4)	82	340	<0.05	<0.03
B(5)	82	340	<0.05	<0.03
B(6)	83	350	<0.05	<0.03
Limit : (Cups & Mugs)			0.5	0.5

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

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(3) Leachable Lead and Cadmium Content - Internal Surface

Test Method : Glazed Ceramics and Glassware Regulations SOR/2016-175, by Atomic Absorption Spectrophotometric analysis.

Tested component	Leaching volume (ml)	Result	
		Lead (mg/l)	Cadmium (mg/l)
A(1)	360	<0.05	<0.03
A(2)	360	<0.05	<0.03
A(3)	350	<0.05	<0.03
A(4)	350	<0.05	<0.03
A(5)	350	<0.05	<0.03
A(6)	360	<0.05	<0.03
Limit (cup & mug)		0.5	0.50

Tested component	Leaching volume (ml)	Result	
		Lead (mg/l)	Cadmium (mg/l)
B(1)	360	<0.05	<0.03
B(2)	360	<0.05	<0.03
B(3)	350	<0.05	<0.03
B(4)	350	<0.05	<0.03
B(5)	350	<0.05	<0.03
B(6)	360	<0.05	<0.03
Limit (cup & mug)		0.5	0.50

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

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(4) Leachable Lead and Cadmium Content - Lip & Rim

Test Method : Glazed Ceramics and Glassware Regulations SOR/2016-175, by Atomic Absorption Spectrophotometric analysis.

Tested component	Internal volume (ml)	Leaching volume (ml)	Result relative to internal volume	
			Lead (mg/l)	Cadmium (mg/l)
A(1)	360	240	<0.4	<0.04
A(2)	360	240	<0.4	<0.04
A(3)	350	240	<0.4	<0.04
A(4)	350	240	<0.4	<0.04
A(5)	350	240	<0.4	<0.04
A(6)	360	240	<0.4	<0.04
Limit			4	0.4

Tested component	Internal volume (ml)	Leaching volume (ml)	Result relative to internal volume	
			Lead (mg/l)	Cadmium (mg/l)
B(1)	360	240	<0.4	<0.04
B(2)	360	240	<0.4	<0.04
B(3)	350	240	<0.4	<0.04
B(4)	350	240	<0.4	<0.04
B(5)	350	240	<0.4	<0.04
B(6)	360	240	<0.4	<0.04
Limit			4	0.4

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

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(5) Leachable Lead and Cadmium Content - Internal Surface

Test Method : International Standard ISO 6486 : 1999 Part 1 by Atomic Absorption Spectrophotometric analysis.

Tested Component	Leaching volume (ml)	Result	
		Lead (mg/dm ² , mg/l)	Cadmium (mg/dm ² , mg/l)
A(1)	370	<0.05	<0.03
A(2)	370	<0.05	<0.03
A(3)	370	<0.05	<0.03
A(4)	370	<0.05	<0.03
Limit : (Cups and mugs)		0.5	0.25

Tested Component	Leaching volume (ml)	Result	
		Lead (mg/dm ² , mg/l)	Cadmium (mg/dm ² , mg/l)
B(1)	370	<0.05	<0.03
B(2)	370	<0.05	<0.03
B(3)	370	<0.05	<0.03
B(4)	370	<0.05	<0.03
Limit : (Cups and mugs)		0.5	0.25

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

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(6) Leachable Lead and Cadmium Content – Drinking Rim

Test Method : International Standard ISO 6486 : 1999 Part 1 by Atomic Absorption Spectrophotometric analysis.

Tested Component	Internal Volume (ml)	Leaching Volume (ml)	Result	
			Lead (mg/article)	Cadmium (mg/article)
A(1)	370	240	<0.05	<0.03
A(2)	370	240	<0.05	<0.03
A(3)	370	240	<0.05	<0.03
A(4)	370	240	<0.05	<0.03

Tested Component	Internal Volume (ml)	Leaching Volume (ml)	Result	
			Lead (mg/article)	Cadmium (mg/article)
B(1)	370	240	<0.05	<0.03
B(2)	370	240	<0.05	<0.03
B(3)	370	240	<0.05	<0.03
B(4)	370	240	<0.05	<0.03

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

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(7) 食品安全国家标准 - 陶瓷制品

National Food Safety Standard - Ceramic ware

测试方法 Test Method : GB 5009.156-2016, GB 31604.1-2015, GB 31604.24-2016 和 GB 31604.34-2016.

1) 感官要求 Sensorial requirement :

结果 Result		指标 Requirement
(1)	(2)	
符合要求 Complied	符合要求 Complied	上釉制品釉彩均匀, 装饰无脱落现象 Product glazed evenly, decorative without shedding phenomenon

2) 理化指标 Chemical test requirement :

测试部件 Tested component	结果 (毫克/升) Results (mg/L)	
	铅 Pb	镉 Cd
(1)	<0.05	<0.03
(2)	<0.05	<0.03
指标 (杯类) Requirement (cup & mug)	≤0.5	≤0.25

备注 Remark :

mg/L = 毫克/升 milligram per liter

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

收板日期: 2022 年 05 月 12 日

Date sample received : May 12, 2022

测试日期: 2022 年 05 月 12 日至 2022 年 05 月 23 日

Testing period : May 12, 2022 to May 23, 2022



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(8) Total Lead (Pb) Content

Test Method : GB 31604.34-2016. Acid digestion method was used and determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm
(1)	<20
(2)	<20

ppm = part per million = mg/kg

Tested Components :

- (1) White porcelain mug with red coating (audi sport) .
- (2) White porcelain mug excluding black printings (Audi Quattro) .

Date sample received : May 12, 2022

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(9) Ensaio de migração total / Total Migration Test

Ensaio padrão / PORTARIA 27/1996 Anvisa, Anexo 1 / ORDINANCE 27/ 1996 Anvisa, Annex 1.
Test Standard :

Resultados dos ensaios / Test Results :

Amostra testada / Tested component	Resultado / Result (mg/kg)	Limite/ Limit (mg/kg)
(1)	<20	50
(2)	<20	50

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

Data de recebimento da amostra / Date sample received : May 12, 2022

Período de ensaios / Testing period : May 12, 2022 a/to May 23, 2022



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(10) Teor de chumbo e cádmio lixiviável / Leachable Lead and Cadmium Content

Ensaio padrão / PORTARIA 27/ 1996 Anvisa, Anexo 2 Análise Espectrofotométrica de absorção atômica /
Test standard : ORDINANCE 27/1996 Anvisa, - Annex 2 by Atomic Absorption Spectrophotometric analysis.

Amostra testada / Tested component	Lixiviação volume/ Leaching volume (ml)	Resultado / Result	
		Chumbo / Lead (mg/kg)	Cádmio / Cadmium (mg/kg)
(A)	300	<0.05	<0.03
(B)	300	<0.05	<0.03
Limite / Limit (categoria /category 2)		4	0.3

Component no.	Component description	Location	Material type provided by client
A	White porcelain mug with red printing	Audi Sport	Porcelain
B	White porcelain mug with black printing	Audi Quattro	Porcelain

Data de recebimento da amostra / Date sample received : May 12, 2022
Período de ensaios / Testing period : May 12, 2022 a/to May 23, 2022

(11) Total Migration Test

Test Standard : MERCOSUR Resolution 55/1992.

Test Results :

Tested Component	Result in mg/kg	Limit in mg/kg
(1)	<20	50
(2)	<20	50

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

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(12) Leachable Lead and Cadmium Content - internal

Test Method : MERCOSUR Resolution 55/1992 by Atomic Absorption Spectrophotometric analysis.

Tested Component	Volume of Leaching Solution (ml)	Result	
		Lead (mg/kg)	Cadmium (mg/kg)
(A)	300	<0.05	<0.03
(B)	300	<0.05	<0.03
Limit (category 2) :		4.0	0.3

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

Date sample received : May 12, 2022

Testing period : May 12, 2022 to May 23, 2022

(13) Total Lead (Pb) Content

Test Method : Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2)	<0.0020	0.009

Tested Components:

- (1) Red coating on ceramic (audi sport).
- (2) Black coating on plastic label (bottom of audi sport).

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(14) Persistent, Bioaccumulative and Toxic (PBT) Chemicals Content

Test Method : By solvent extraction and followed by Gas Chromatography Mass Spectrometric (GC/MS) analysis.

Compound	Result (% w/w)		Requirement (% w/w)
	(1)	(2)	
Decabromodiphenylether, Deca BDE	ND	ND	ND
Hexachlorobutadiene HCBd	ND	ND	ND
Phenol, isopropylated phosphate (3:1), PIP (3:1)	ND	ND	ND
Pentachlorothiophenol, PCTP	ND	ND	1
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	ND	ND	0.3

Remark :

Requirement of 2,4,6-tris(tert-butyl)phenol is not regulated in finished product but regulated in mixture in container or oil and lubricant additives with effective after January 6, 2026 under 40 CFR 751.409 while PIP (3:1) is effective until March 08, 2022.

ND = Not detected

Detection limit = 0.005%

Tested Components:

- (1) White porcelain mug with red coating (audi sport) .
- (2) Transparent plastic label with black coating (bottom of audi sport) .

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(15) Leachable Lead & Cadmium content - California

Examination of Marking on Tableware

Each specimen of the submitted sample was examined for the marking of the name of manufacturer/importer.

Requirement : All specimens of the samples should be permanently and indelibly marked with the name of manufacturer/importer if the samples contain Lead or Cadmium.

Result : All specimens of the submitted samples were **Marked** with the name of manufacturer/importer.

Leachable Lead and Cadmium Content - Internal Surface

Test Method : U.S. FDA CPG 7117.06(2005) Sec 545.400, 7117.07(2005) Sec 545.450 and A.O.A.C. *Official Methods of Analysis* 18th Edition (2005) Method 973.32 and 973.82 By Atomic Absorption Spectrophotometric analysis.

Tested Component	Internal Depth (mm)	Volume of Leaching Solution (ml)	Lead (mg/l)	Cadmium (mg/l)
A(1)	83	350	<0.05	<0.03
A(2)	83	350	<0.05	<0.03
A(3)	82	340	<0.05	<0.03
A(4)	82	340	<0.05	<0.03
A(5)	82	340	<0.05	<0.03
A(6)	83	350	<0.05	<0.03
Limit (FDA – Cups & Mugs)			0.5	0.5
Limit (California – Small Hollowware)			0.100	0.189

Tested Component	Internal Depth (mm)	Volume of Leaching Solution (ml)	Lead (mg/l)	Cadmium (mg/l)
B(1)	83	350	<0.05	<0.03
B(2)	83	350	<0.05	<0.03
B(3)	82	340	<0.05	<0.03
B(4)	82	340	<0.05	<0.03
B(5)	82	340	<0.05	<0.03
B(6)	83	350	<0.05	<0.03
Limit (FDA – Cups & Mugs)			0.5	0.5
Limit (California – Small Hollowware)			0.100	0.189



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Remark : The above California limits were quoted from the consent judgement No. SF-938430 settled by superior court of the state of California for the city and county of San Francisco, For ceramic ware - Food and Beverage use products (Internal) based on the California Proposition 65.

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

Date sample received : May 12, 2022

Testing period : May 12, 2022 to May 23, 2022

(16) Leachable Lead and Cadmium Content - Lip and Rim Area

Test method: ASTM C927-80 (Reapproved 2014) By Atomic Absorption Spectrophotometric Analysis.

Tested Component	Internal Volume (ml)	Volume of Leaching Solution (ml)	Result relative to Internal Volume	
			Lead (mg/l)	Cadmium (mg/l)
A(1)	350	240	<0.4	<0.04
A(2)	350	240	<0.4	<0.04
A(3)	340	240	<0.4	<0.04
A(4)	340	240	<0.4	<0.04
A(5)	340	240	<0.4	<0.04
A(6)	350	240	<0.4	<0.04
Limit (California):			0.5	2.0

Tested Component	Internal Volume (ml)	Volume of Leaching Solution (ml)	Result relative to Internal Volume	
			Lead (mg/l)	Cadmium (mg/l)
B(1)	350	240	<0.4	<0.04
B(2)	350	240	<0.4	<0.04
B(3)	340	240	<0.4	<0.04
B(4)	340	240	<0.4	<0.04
B(5)	340	240	<0.4	<0.04
B(6)	350	240	<0.4	<0.04
Limit (California):			0.5	2.0



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Remark : The above limits were quoted from the consent judgement No. SF-436429 & SF-440811 settled by superior court of the state of California for the city and county of San Francisco, for food and beverage use products (lip and rim area) based on the California Proposition 65.

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

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(17) Lead and Cadmium in Surface Wipe Sample - Ceramicware / Glassware Food and Beverage Use Products

Test Method : NIOSH 9100.

	Result (µg)		Limit (µg)
	(1)	(2)	
Lead	<0.5	<0.5	1.0 (max.)
Cadmium	<0.5	<0.5	4.0 (max.)

Remark:
The above limit was quoted from the consent judgement no. SF-436429/SF-440811 settled by superior court of the state of California for the city and county of San Francisco, for ceramicware - food and beverage use products based on the California Proposition 65.

µg = microgram

Tested Components:

- (1) White porcelain mug with red coating (audi sport).
- (2) White porcelain mug with black printings (Audi Quattro).

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(18) Leachable Lead Content - Lip and Rim Area

Test Method : ASTM C927-80 (Reapproved 2014) By Atomic Absorption Spectrophotometric Analysis.

Tested Component	Internal Volume (ml)	Volume of Leaching Solution (ml)	Result relative to Internal Volume Lead (ug/ml)
A(1)	350	240	<0.4
A(2)	350	240	<0.4
A(3)	340	240	<0.4
A(4)	340	240	<0.4
A(5)	340	240	<0.4
A(6)	350	240	<0.4
Limit (California):			0.5

Tested Component	Internal Volume (ml)	Volume of Leaching Solution (ml)	Result relative to Internal Volume Lead (ug/ml)
B(1)	350	240	<0.4
B(2)	350	240	<0.4
B(3)	340	240	<0.4
B(4)	340	240	<0.4
B(5)	340	240	<0.4
B(6)	350	240	<0.4
Limit (California):			0.5

Remark : The above limit was quoted from the consent judgement No. CV-216180 settled by superior court of the state of California for the city and county of Santa Clara, for ceramic mugs with colored artwork or designs on the exterior (lip and rim area) based on the California Proposition 65.

Component no.	Component description	Location	Material type provided by client
1.	White porcelain mug with red printing	Audi Sport	Porcelain
2.	White porcelain mug with black printing	Audi Quattro	Porcelain

Date sample received : May 12, 2022
Testing period : May 12, 2022 to May 23, 2022



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(19) Lead in Surface Wipe Sample

Test Method : NIOSH 9100.

	Result (µg)		Limit (µg)
	(1)	(2)	
Lead	<0.5	<0.5	1.0 (max.)

The above limit was quoted from the Consent Judgement No.CV-216180 settled by Superior Court of the State of California for the County of Santa Clara, for Ceramic mugs with colored artwork or designs on the exterior based on the California Proposition 65.

µg = microgram

Tested Components:

- (1) White porcelain mug with red coating (audi sport).
- (2) White porcelain mug with black printings (Audi Quattro).

Date sample received : May 12, 2022

Test Period : May 12, 2022 to May 23, 2022



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(20) Toxic Elements Analysis

Test Method : Model Toxics in Packaging Legislation requirement of packaging and packaging components, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

	Result (ppm)			Limit (ppm)
	(1)	(2)	(3/4)	
Total Lead (Pb)	<5	<5	<5	--
Total Cadmium (Cd)	<5	<5	<5	--
Total Mercury (Hg)	<5	<5	<5	--
Chromium VI (Cr (VI))	<5	<5	<5	--
Sum of Pb, Cd, Hg and Cr (VI)	<20	<20	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Coatings (black, white) on paper card (box) (packaging).
- (2) Transparent plastic (polybag) (packaging).
- (3) White paper card excluding coatings (box) (packaging).
- (4) White paper sheet with black printings (information sheet) (packaging).

Date sample received : May 12, 2022

Test Period : May 12, 2022 to May 25, 2022



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Number : HKGH02875168 S2

(21) Phthalate Content Test

Test Method : By solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (ppm)		Limit (ppm)
	(1)	(2)	
Dibutyl phthalate (DBP)	<100	<100	--
Diethyl hexyl phthalate (DEHP)	<100	<100	--
Benzyl butyl phthalate (BBP)	<100	<100	--
Diisononyl phthalate (DINP)	<100	<100	--
Di-n-octyl phthalate (DnOP)	<100	<100	--
Diisodecyl phthalate (DIDP)	<100	<100	--
Dipentyl phthalate (DPP) / Di-n-pentyl phthalate (DPENP)	<100	<100	--
Dicyclohexyl phthalate (DCHP)	<100	<100	--
Diisobutyl phthalate (DIBP)	<100	<100	--
Dihexyl phthalate (DHP) / Di-n-hexyl phthalate (DNHP) / (DHEXP)	<100	<100	--
Other ortho-phthalates ^	<100	<100	--
Sum of ortho-phthalates	<100	<100	100

The limit was quoted according to Model Toxics in Packaging Legislation (Toxics in Packaging Clearinghouse TPCH) on ortho-phthalates test.

^ = results were reported in DEHP (ion 149) equivalent

ppm = parts per million = mg/kg

Tested Components:

- (1) Coatings (black, white) on paper card (box) (packaging).
- (2) Transparent plastic (polybag) (packaging).

Date sample received : May 12, 2022

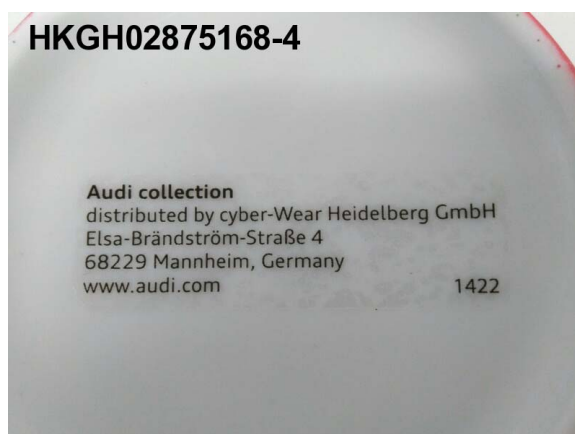
Test Period : May 12, 2022 to May 25, 2022



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End of report

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The observations and test results in this report are relevant to the sample(s) tested and submitted by client. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. This report does not discharge or release you from your legal obligations and duties to any other person. Only the Client is authorized to permit copying or distribution of this report and the report shall not be reproduced except in full. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



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To:	MAHLWERCK PORZELLAN GMBH	Ref:	FC-2022-6424
Attention:	MR TOBIAS KOECKERT	Date:	Sep 21, 2022

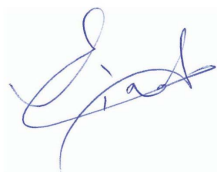
Re : Report Revision Notification

Intertek Testing Services Report Number HKGH02875168 S1 Dated Aug 08, 2022.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services report, HKGH02875168 S2.

Thank you for your attention.

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Vice President