

**TEST REPORT**

Job No./Report No TR1708711

Date:11 March 2020

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**AHMETAL MAKİNE SANAYİ VE TİCARET LİMİTED ŞİRKETİ**

SELÇUKLU MAH. TİCARET BÖLGESİ SOK. NO:196 BOLVADİN - AFYONKARAHİSAR

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**To the attention of Yusuf Pektas**

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

Sample No.	Sample Description
A	Enamelled Pot

Client's reference No. : TR 1708711  
Model/Style No. : 1102  
Manufacturer : AHMETAL MAKİNE SANAYİ VE TİCARET LİMİTED ŞİRKETİ  
Sample Receiving Date : 3 March 2020  
Test Performing Period : 3 March 2020 ~ 11 March 2020

**Overall Conclusion : PASS**

Test Results : Please refer to the next page(s).

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Test Parameters	Result
<b>Chemical tests</b>	<b>A1</b>
FCM - Specific Migration of 21 Heavy Metals in Metal Article (EU) (5 g/L Citric Acid)	M
Sensorial Examination of Odour and Taste Test	M
Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and ISO 4531:2018 – Vitreous and porcelain enamels – Release from enamelled articles in contact with food – Extractable heavy metals	M

Remarks	:	M = Meets client's requirement
		F = Exceed client's requirement
		I = Inconclusive
		* = No specified requirement
		# = See individual result: Result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component <u>has been carried out</u> as requested to determine the compliance of each component to the requirement
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).	
	The composite sampling method is based on the client's special request and is a modification from the testing standard.	
	Residual sample can be returned to client if requested.	

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The test results relate to the tested items only.  
Test reports without SGS seal and authorised signatures are invalid.  
Reported results do not include uncertainties.

Issued in Istanbul  
Signed for and on behalf of  
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

Uğur Yılmaz  
Hardline & CPCH Customer Services Team Leader

Bora Şirinbilek  
Hardline & CPCH Testing Services Manager




## Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	Enamelled Pot	A1	Inner coated main	Enamel	White

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### Specific Migration of 21 Heavy Metals in Metal Article (EU)<sup>1</sup>

**Test Method :** SGS In House Test Method RSTS-CHEM-603-1 (with reference to EN13130-1:2004) – Analysis by ICP-MS  
**Test Conditions :** 2 hours at 100°C  
**Simulant Used :** 5 g/L Aqueous Solution of Citric Acid

Test Items	A1 Result(s) (mg/kg)		Reporting Limit (mg/kg)	7 x SRL (mg/kg)	SRL (mg/kg)
	1 <sup>st</sup> + 2 <sup>nd</sup> Migration	3 <sup>rd</sup> Migration			
Aluminium (Al)	3,080	0,369	0,2	35	5
Antimony (Sb)	n.d.	n.d.	0,02	0,28	0,04
Arsenic (As)	n.d.	n.d.	0,001	0,014	0,002
Barium (Ba)	n.d.	n.d.	0,25	8,4	1,2
Beryllium (Be)	n.d.	n.d.	0,005	0,07	0,01
Cadmium (Cd)	n.d.	n.d.	0,002	0,035	0,005
Chromium (Cr)	n.d.	n.d.	0,1	1,75	0,25
Cobalt (Co)	n.d.	n.d.	0,01	0,14	0,02
Copper (Cu)	n.d.	n.d.	0,1	28	4
Lead (Pb)	n.d.	n.d.	0,005	0,07	0,01
Lithium (Li)	n.d.	n.d.	0,02	0,336	0,048
Iron (Fe)	n.d.	n.d.	0,25	280	40
Manganese (Mn)	n.d.	n.d.	0,25	12,6	1,8
Mercury (Hg)	n.d.	n.d.	0,002	0,021	0,003
Molybdenum (Mo)	n.d.	n.d.	0,02	0,84	0,12
Nickel (Ni)	n.d.	n.d.	0,05	0,98	0,14
Silver (Ag)	n.d.	n.d.	0,03	0,56	0,08
Thallium (Tl)	n.d.	n.d.	0,0001	0,0007	0,0001
Tin (Sn)	n.d.	n.d.	5	700	100
Vanadium (V)	n.d.	n.d.	0,005	0,07	0,01
Zinc (Zn)	n.d.	n.d.	1	35	5
<b>Conclusion :</b>	<b>Pass</b>	<b>Pass</b>			

**Note(s) :** SRL = Specific Release Limit

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n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

- Remark(s) :**
1. According to Council of Europe Resolution CM/Res(2013)9, the result from 3<sup>rd</sup> migration shall comply with the Specific Release Limit (SRL) and the sum of 1<sup>st</sup> and 2<sup>nd</sup> migration shall not exceed seven times of SRL for repeated use articles,
  2. Test condition & simulant were specified according to EN 13130-1.
  3. Acidic foodstuff is not considered for compliance (for aluminum and aluminum alloy),
  4. The ratio of surface area to volume ratio is 4,71 dm<sup>2</sup> per 1 kg of foodstuff in contact with
  5. The volume of simulant used is 1 L.

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### Sensorial Examination of Odour and Taste Test

**Test Method :** With reference to DIN 10955:2004  
**Test Media :** Deionized water  
**Number of Panelists :** 6  
**Test Conditions :** 100°C for 2 hours

<u>Test Item(s)</u>	<u>Result(s) (Point scale)</u> <b>A1</b>	<u>Permissible Limit (Point Scale)</u>
Odour	0	< 3
Taste	0	< 3

**Conclusion :** **Pass**

**Note(s) :** Intensity scale (rounded at 0,5):

- 0 – No perceptible difference
- 1 – Just perceptible difference
- 2 – Slight difference
- 3 – Marked difference
- 4 – Strong difference

**Remark(s) :** 1. Permissible Limit is according to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments.

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## Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and ISO 4531:2018 – Vitreous and porcelain enamels – Release from enamelled articles in contact with food – Extractable heavy metals

Method : With reference to ISO 4531:2018. Analysis was performed by Inductively Coupled Argon Plasma Spectrometry (ICP) and Inductively coupled plasma-mass spectrometry (ICP-MS).

Test Condition: 3% acetic acid (w/v) in aqueous solution in 95°C for 2 hours.(3<sup>rd</sup> migration).

Test Item	Result (µg/L)	Reporting Limit (µg/L)	Limit (µg/L)
	<b>A1</b>		
Aluminium (Al)	ND	2500	≤ 5000
Silver (Ag)	ND	40	≤ 80
Arsenic (As)	ND	1	≤ 2
Barium (Ba)	ND	600	≤ 1200
Cadmium (Cd)	ND	2	≤ 5
Cobalt (Co)	ND	50	≤ 100
Chromium (Cr)	ND	120	≤ 250
Copper (Cu)	ND	2000	≤ 4000
Lithium (Li)	ND	240	≤ 480
Manganese (Mn)	ND	900	≤ 1800
Molybdenum (Mo)	ND	60	≤ 120
Nickel (Ni)	ND	70	≤ 140
Lead (Pb)	ND	5	≤ 10
Antimony (Sb)	ND	20	≤ 40
Vanadium (V)	ND	5	≤ 10
Zinc (Zn)	ND	2500	≤ 5000
<b>Comment</b>	<b>Pass</b>	--	--

Note : 1. µg/L = microgram per litre  
 2. °C = degree Celsius  
 3. ND = Not Detected

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End of Test Report

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