

TEST REPORT

Job No./Report No TR2397003

Date: 16 November 2023

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ALTEK DÖKÜM HADDE MAMÜLLERİ SAN. VE TİC. A.Ş.

Bakır ve Pirinç Sanayiciler Sitesi Kurdoğlu Caddesi No:10 Beylikdüzü / İSTANBUL

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To the attention of Sultan Gülsevinc

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

Sample Submitted By : ALTEK DÖKÜM HADDE MAMÜLLERİ SAN. VE TİC. A.Ş.
Sample Description : See the following page.
Sample Receiving Date : 09 November 2023
Testing Period : 09 November 2023 ~ 16 November 2023
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s)
Test Result(s) : Please refer to next page(s)

Conclusion : Based on the performed tests on selected part of submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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SGS applied shared risk decision rule.

SGS does not verify authenticity of any Brand/Trademark of products. Buyers must check if the product is genuine with the Brand/Trademark owner directly.

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."

In this Test Report tests marked (1) are included in the TURKAK Accreditation Scope of this Laboratory.

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The test results relate to the tested items only.
Test reports without SGS seal and authorized signatures are invalid.

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

RAVİYE MUTLU
Customer Services Supervisor

Bora Şirinbilek
Hardline & CPCH Testing Services Manager



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Test Part Description:

CONCLUSION

1	CuDHP	
1.1	Rose gold Metal Main	PASS
2	CuZn37	
2.1	Gold Metal Main	PASS
3	CuNi12Zn24	
3.1	Gold Metal Main	PASS
4	CuNi18Zn20	
4.1	Light Gold Metal Main	PASS
5	CuZn10	
5.1	Gold Metal Main	PASS
6	CuZn15	
6.1	Rose gold Metal Main	PASS
7	CuZn30	
7.1	Gold Metal Main	PASS
8	CuZn33	
8.1	Gold Metal Main	PASS
9	CuSn6	
9.1	Rose gold Metal Main	PASS
10	CuSn4	
10.1	Rose gold Metal Main	PASS
11	CuSn8	
11.1	Rose gold Metal Main	PASS
12	CuETP	
12.1	Rose gold Metal Main	PASS
13	CuFe2P	
13.1	Gold Metal Main	PASS
14	CuPHC	
14.1	Rose gold Metal Main	PASS
15	CuOF	
15.1	Rose gold Metal Main	PASS
16	CuSn0,15	
16.1	Rose gold Metal Main	PASS

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Test Item(s):	RESULTS		
	1.1	2.1	3.1
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA	NA	NA
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	ND	ND	ND
Flame Retardants			
Sum of PBBs	NA	NA	NA
Monobromobiphenyl	NA	NA	NA
Dibromobiphenyl	NA	NA	NA
Tribromobiphenyl	NA	NA	NA
Tetrabromobiphenyl	NA	NA	NA
Pentabromobiphenyl	NA	NA	NA
Hexabromobiphenyl	NA	NA	NA
Heptabromobiphenyl	NA	NA	NA
Octabromobiphenyl	NA	NA	NA
Nonabromobiphenyl	NA	NA	NA
Decabromobiphenyl	NA	NA	NA
Sum of PBDEs	NA	NA	NA
Monobromodiphenyl ether	NA	NA	NA
Dibromodiphenyl ether	NA	NA	NA
Tribromodiphenyl ether	NA	NA	NA
Tetrabromodiphenyl ether	NA	NA	NA
Pentabromodiphenyl ether	NA	NA	NA
Hexabromodiphenyl ether	NA	NA	NA
Heptabromodiphenyl ether	NA	NA	NA
Octabromodiphenyl ether	NA	NA	NA
Nonabromodiphenyl ether	NA	NA	NA
Decabromodiphenyl ether	NA	NA	NA
Phthalates			
Dibutyl phthalate (DBP)	NA	NA	NA
Butyl benzyl phthalate (BBP)	NA	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA	NA
Diisobutyl Phthalates (DIBP)	NA	NA	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm ² = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
	ND = Not detected (<MDL)	NA = Not applicable	NR = Not requested
	MDL = Method Detection Limit		

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<u>Test Item(s):</u>	<u>RESULTS</u>		
	<u>4.1</u>	<u>5.1</u>	<u>6.1</u>
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA	NA	NA
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	ND	ND	ND
Flame Retardants			
Sum of PBBs	NA	NA	NA
Monobromobiphenyl	NA	NA	NA
Dibromobiphenyl	NA	NA	NA
Tribromobiphenyl	NA	NA	NA
Tetrabromobiphenyl	NA	NA	NA
Pentabromobiphenyl	NA	NA	NA
Hexabromobiphenyl	NA	NA	NA
Heptabromobiphenyl	NA	NA	NA
Octabromobiphenyl	NA	NA	NA
Nonabromobiphenyl	NA	NA	NA
Decabromobiphenyl	NA	NA	NA
Sum of PBDEs	NA	NA	NA
Monobromodiphenyl ether	NA	NA	NA
Dibromodiphenyl ether	NA	NA	NA
Tribromodiphenyl ether	NA	NA	NA
Tetrabromodiphenyl ether	NA	NA	NA
Pentabromodiphenyl ether	NA	NA	NA
Hexabromodiphenyl ether	NA	NA	NA
Heptabromodiphenyl ether	NA	NA	NA
Octabromodiphenyl ether	NA	NA	NA
Nonabromodiphenyl ether	NA	NA	NA
Decabromodiphenyl ether	NA	NA	NA
Phthalates			
Dibutyl phthalate (DBP)	NA	NA	NA
Butyl benzyl phthalate (BBP)	NA	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA	NA
Diisobutyl Phthalates (DIBP)	NA	NA	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
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Test Item(s):	RESULTS		
	7.1	8.1	9.1
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA	NA	NA
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	ND	ND	ND
Flame Retardants			
Sum of PBBs	NA	NA	NA
Monobromobiphenyl	NA	NA	NA
Dibromobiphenyl	NA	NA	NA
Tribromobiphenyl	NA	NA	NA
Tetrabromobiphenyl	NA	NA	NA
Pentabromobiphenyl	NA	NA	NA
Hexabromobiphenyl	NA	NA	NA
Heptabromobiphenyl	NA	NA	NA
Octabromobiphenyl	NA	NA	NA
Nonabromobiphenyl	NA	NA	NA
Decabromobiphenyl	NA	NA	NA
Sum of PBDEs	NA	NA	NA
Monobromodiphenyl ether	NA	NA	NA
Dibromodiphenyl ether	NA	NA	NA
Tribromodiphenyl ether	NA	NA	NA
Tetrabromodiphenyl ether	NA	NA	NA
Pentabromodiphenyl ether	NA	NA	NA
Hexabromodiphenyl ether	NA	NA	NA
Heptabromodiphenyl ether	NA	NA	NA
Octabromodiphenyl ether	NA	NA	NA
Nonabromodiphenyl ether	NA	NA	NA
Decabromodiphenyl ether	NA	NA	NA
Phthalates			
Dibutyl phthalate (DBP)	NA	NA	NA
Butyl benzyl phthalate (BBP)	NA	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA	NA
Diisobutyl Phthalates (DIBP)	NA	NA	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
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<u>Test Item(s):</u>	<u>RESULTS</u>		
	<u>10.1</u>	<u>11.1</u>	<u>12.1</u>
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA	NA	NA
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	ND	ND	ND
Flame Retardants			
Sum of PBBs	NA	NA	NA
Monobromobiphenyl	NA	NA	NA
Dibromobiphenyl	NA	NA	NA
Tribromobiphenyl	NA	NA	NA
Tetrabromobiphenyl	NA	NA	NA
Pentabromobiphenyl	NA	NA	NA
Hexabromobiphenyl	NA	NA	NA
Heptabromobiphenyl	NA	NA	NA
Octabromobiphenyl	NA	NA	NA
Nonabromobiphenyl	NA	NA	NA
Decabromobiphenyl	NA	NA	NA
Sum of PBDEs	NA	NA	NA
Monobromodiphenyl ether	NA	NA	NA
Dibromodiphenyl ether	NA	NA	NA
Tribromodiphenyl ether	NA	NA	NA
Tetrabromodiphenyl ether	NA	NA	NA
Pentabromodiphenyl ether	NA	NA	NA
Hexabromodiphenyl ether	NA	NA	NA
Heptabromodiphenyl ether	NA	NA	NA
Octabromodiphenyl ether	NA	NA	NA
Nonabromodiphenyl ether	NA	NA	NA
Decabromodiphenyl ether	NA	NA	NA
Phthalates			
Dibutyl phthalate (DBP)	NA	NA	NA
Butyl benzyl phthalate (BBP)	NA	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA	NA
Diisobutyl Phthalates (DIBP)	NA	NA	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
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Test Item(s):	RESULTS		
	13.1	14.1	15.1
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA	NA	NA
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	ND	ND	ND
Flame Retardants			
Sum of PBBs	NA	NA	NA
Monobromobiphenyl	NA	NA	NA
Dibromobiphenyl	NA	NA	NA
Tribromobiphenyl	NA	NA	NA
Tetrabromobiphenyl	NA	NA	NA
Pentabromobiphenyl	NA	NA	NA
Hexabromobiphenyl	NA	NA	NA
Heptabromobiphenyl	NA	NA	NA
Octabromobiphenyl	NA	NA	NA
Nonabromobiphenyl	NA	NA	NA
Decabromobiphenyl	NA	NA	NA
Sum of PBDEs	NA	NA	NA
Monobromodiphenyl ether	NA	NA	NA
Dibromodiphenyl ether	NA	NA	NA
Tribromodiphenyl ether	NA	NA	NA
Tetrabromodiphenyl ether	NA	NA	NA
Pentabromodiphenyl ether	NA	NA	NA
Hexabromodiphenyl ether	NA	NA	NA
Heptabromodiphenyl ether	NA	NA	NA
Octabromodiphenyl ether	NA	NA	NA
Nonabromodiphenyl ether	NA	NA	NA
Decabromodiphenyl ether	NA	NA	NA
Phthalates			
Dibutyl phthalate (DBP)	NA	NA	NA
Butyl benzyl phthalate (BBP)	NA	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA	NA
Diisobutyl Phthalates (DIBP)	NA	NA	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
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Test Item(s):	RESULTS
	16.1
Cadmium (Cd)	ND
Lead (Pb)	ND
Mercury (Hg)	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	ND
Flame Retardants	
Sum of PBBs	NA
Monobromobiphenyl	NA
Dibromobiphenyl	NA
Tribromobiphenyl	NA
Tetrabromobiphenyl	NA
Pentabromobiphenyl	NA
Hexabromobiphenyl	NA
Heptabromobiphenyl	NA
Octabromobiphenyl	NA
Nonabromobiphenyl	NA
Decabromobiphenyl	NA
Sum of PBDEs	NA
Monobromodiphenyl ether	NA
Dibromodiphenyl ether	NA
Tribromodiphenyl ether	NA
Tetrabromodiphenyl ether	NA
Pentabromodiphenyl ether	NA
Hexabromodiphenyl ether	NA
Heptabromodiphenyl ether	NA
Octabromodiphenyl ether	NA
Nonabromodiphenyl ether	NA
Decabromodiphenyl ether	NA
Phthalates	
Dibutyl phthalate (DBP)	NA
Butyl benzyl phthalate (BBP)	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA
Diisobutyl Phthalates (DIBP)	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
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SUBSTANCE	LIMITS
Cadmium (Cd)Content	0.01 % (100 ppm)
Lead (Pb) Content	0.1 % (1000 ppm)
Mercury (Hg) Content	0.1 % (1000 ppm)
Chromium VI (Cr+6)Content(ppm)(for non metal)	0.1 % (1000 ppm)
Chromium VI (Cr+6)Content($\mu\text{g}/\text{cm}^2$)for metal)	Colorimetric result $< 0.10 \mu\text{g}/\text{cm}^2$ $\geq 0.10 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$ $> 0.13 \mu\text{g}/\text{cm}^2$
	Qualitative Result Negative Inconclusive Positive
PBB	0.1 % (1000 ppm)
PBBDE	0.1 % (1000 ppm)
Dibutyl Phthalate (DBP)	0.1 % (1000 ppm)
Benzyl Butyl Phthalate (BBP)	0.1 % (1000 ppm)
Diethyl Hexyl Phthalate (DEHP)	0.1 % (1000 ppm)
Diisobutyl Phthalate (DIBP)	0.1 % (1000 ppm)

Testing Item	Testing Method	MDL
Cadmium (Cd)Content	With reference to IEC 62321-5:2013, determination of Cadmium by ICP-MS/ICP-OES. ¹	2 ppm
Lead (Pb)Content	With reference to IEC 62321-5:2013, determination of Lead by ICP-MS/ICP-OES. ¹	2 ppm
Mercury (Hg)Content	With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-MS/ICP-OES. ¹	2 ppm
Chromium VI (Cr6+) (For non-metal)	With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis. ¹	8 ppm
Chromium VI (Cr6+) (For metal)	With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis. ¹	0.1 $\mu\text{g}/\text{cm}^2$ with 50 cm^2 (IN TESTING SOLUTION)
PBBs/PBDEs	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. ¹	5 ppm
Phthalates	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS. ¹	50 ppm

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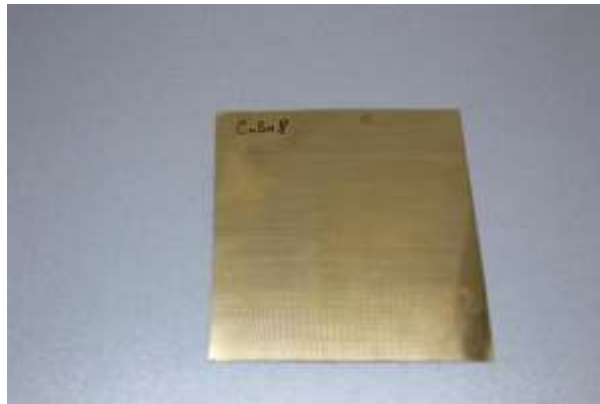
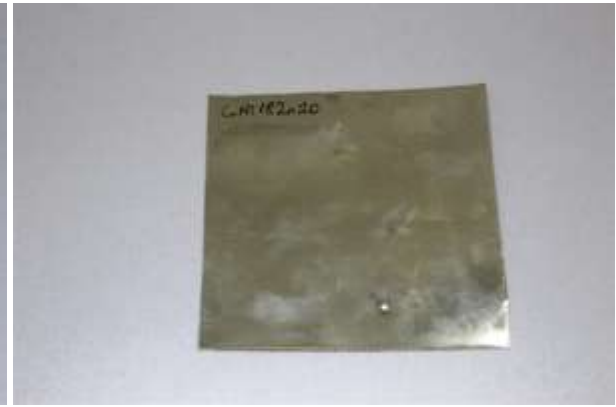


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End of Test Report

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