

No.: ETR25206223 Date: 07-Mar-2025

ELEKTRISOLA (MALAYSIA) SDN. BHD.
JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : ELEKTRISOLA (MALAYSIA) SDN. BHD.

Sample Name : ELEKTRISOLA COPPER CLAD ALUMINUM BARE WIRE (CCA)

Sample Receiving Date :

: 24-Feb-2025

Testing Period : 24-Feb-2025 to 07-Mar-2025

Test Requested : (1) As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to

determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample(s).

(2) Please refer to next pages for the other item(s).

Test Results :

Please refer to following pages.

Conclusion : (1) Based on the performed tests on submitted sample(s), the test results of Cadmium,

Lead, Mercury, Cr(VI) comply with the limits as set by RoHS Directive 2011/65/EU

Annex II.

Troy Chang / Department Malager
Signed for and on behalf of SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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PIN CODE: 8824D88

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Test Part Description

No.1 : COPPER COLORED METAL WIRE

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100
Lead (Pb)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	12.4	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Hexavalent Chromium Cr(VI) (#2)	With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.	μg/cm²	0.1	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-

Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. (#2) =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 μ g/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.
- 6. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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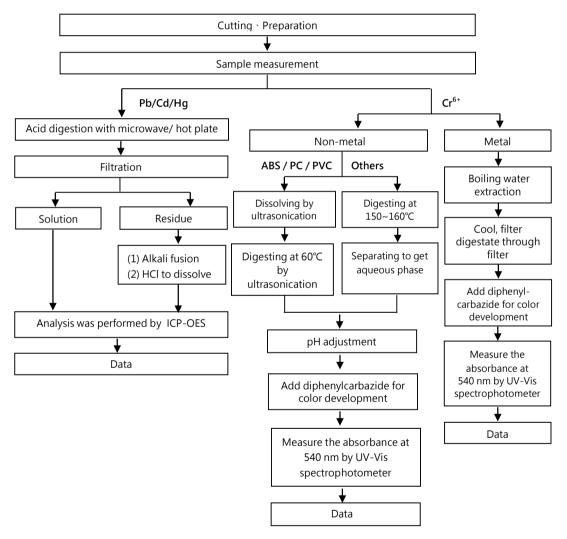
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Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr^{6+} test method excluded)



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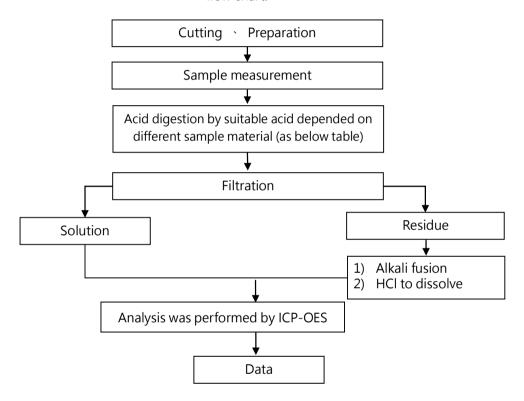
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Flow chart of digestion for the elements analysis performed by ICP-OES

These samples were dissolved totally by pre-conditioning method according to below flow chart.



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂		
Glass	HNO ₃ /HF		
Gold, platinum, palladium, ceramic	Aqua regia		
Silver	HNO₃		
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl		
Others	Added appropriate reagent to total digestion		

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* The tested sample / part is marked by an arrow if it's shown on the photo. *

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** End of Report **

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