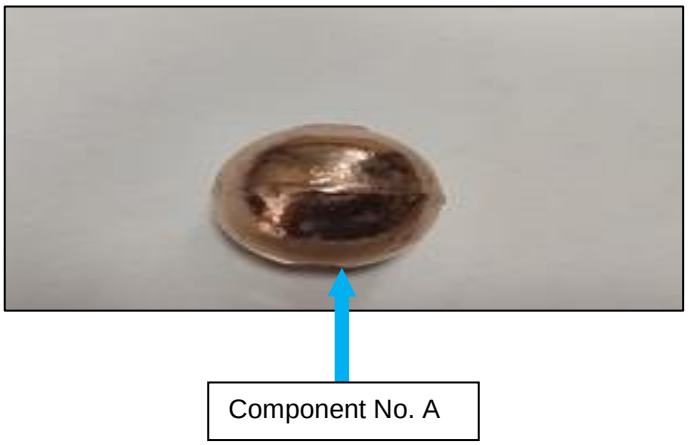
TEST REPORT

Test Report No. GGN/H(RO)/23/002313

Dated 2023.09.29

Sample Image(s) (As Received)



Laboratory:
TÜV SÜD South Asia
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Vihar Phase II Sector 20
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Saki Naka, Andheri

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Dated 2023.09.29

Applicant / Company Name	**:** MTI Industries Pvt Ltd.
Address	**:** Khewat No- 76, 95, Liwaspur, Bahalghar-131021, (Haryana), India
Attention / Contact Person	**:** Anand Gupta
Tested Sample	**:** Received on 2023.09.26 at 02:15 P.M.
Test Period	**:** 2023.09.27 To 2023.09.29
Article / Sample Description	**:** Copper Anode
Part/Grade/Colour/Drawing No.	**:** Copper (DHP)

Note: The submitted sample(s) is / are Not Drawn by the Laboratory

NOTE: Unless otherwise agreed upon, Pass or Fail or Statement of compliance verdicts are given based on the measured values without any considerations of measurement uncertainties. Every test method has a measurement uncertainty which has been evaluated by the laboratory and are available on request. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

Remarks:

1. Sample(s) is / are tested as on-received basis.
2. Test(s) performed as requested by applicant.
3. Conclusion(s) of the test(s) was drawn as per compliance requirement(s) specified by applicant.

Authorized By

Vaban Pal Singh
(Authorised Signatory)

Please Contact:

For any technical issues: Anuradha Dhamija at :Anuradha.Dhamija@tuvsud.com
For any complaint: Ashima Sapra at: Ashima.Sapra@tuvsud.com

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Summary of Test Result(s)

S. No.	Test(s)	Conclusion (#)
1.	Heavy Metals {Lead, Cadmium, Mercury, Hexavalent chromium (Cr (VI)}	Pass
(#) For details regarding specification(s) / regulation(s) based on which compliance is decided, refer test details.		

Material list / List of material(s) (As confirmed by applicant)

Component No.	Component description	Material	Color
A	Copper Anode	Copper	Copper

Sampling plan (As requested by applicant)

S. No.	Test	Component No.
1.	Heavy Metals {Lead, Cadmium, Mercury, Hexavalent chromium (Cr (VI)}	A

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Test Result(s):

Heavy metals

Test Specification(s): RoHS Directive (EU) 2015/863 (RoHS3) amending Annex II of 2011/65/EU (RoHS2) (Recasting 2002/95/EC) and all valid & relevant amending RoHS directives.
Test method(s) adopted: IEC 62321-4:2013+AMD1:2017 CSV (For determination of mercury), IEC 62321-5: 2013 (For determination of lead, cadmium and chromium); IEC 62321-7-2: 2017 (For determination of hexavalent chromium);
Equipment(s) / Technique used: (For Cd, Hg, & Pb) ICP – MS (Inductively Coupled Plasma – Mass Spectrometer) / {For Cr (VI)} UV (Ultra-violet – Visible Spectrophotometer)}.

S. No.	Heavy metal	Test Result (%) – Component No. A	LOQ (%)	Compliance Requirement / Limit Max. (%)
1.	Cadmium (as Cd)	ND	0.001	0.01
2.	Mercury (Hg)	ND	0.001	0.1
3.	Lead (Pb)	ND	0.001	0.1
Conclusion		Pass	----	

Note: (*) Result has been concluded based on total chromium present in the sample.

Heavy metal {Hexavalent Chromium, Cr (VI)} content

Test Specification(s): RoHS Directive (EU) 2015/863 (RoHS3) amending Annex II of 2011/65/EU (RoHS2) (Recasting 2002/95/EC) and all valid & relevant amending RoHS directives.
Test method(s) adopted: IEC 62321-7-1: 2015.
Equipment(s) / Technique used: UV (Ultra-violet – Visible Spectrophotometer)}.

S. No.	Component No.	Test Result	Conclusion
1.	A	Negative	Pass (*)

(*) Conclusion of “Pass” is being drawn based on the Qualitative result, “Negative” or the sample coating is to be considered as a “Non-Cr(VI) based coating”. As per the “Test Specification(s)” considered, the maximum permissible limit for the parameter tested is 0.1 % or 1000 mg/kg:

Abbreviations
(1) “mg/kg” denotes milligram per kilogram & is equivalent to ppm (parts per million); (2) “ND” denotes Not Detected or below limit of quantification. (3) “%” denotes percent & conversion from % to mg/kg can be done by multiplying with 10,000.

--- END OF THE TEST REPORT ---

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