

Report Number :

DELCL9001583



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DL-A/No. -003541/19

TEST REPORT

APPLICANT : USHA AMORPHOUS METAL LTD
486-487, Phase-iii, Sector -20 ,Udyog
Vihar ,Gurgaon ,Haryana , - ,India
ATTN : H L Sharma

Sample Description : THE SUBMITTED SAMPLE SAID TO BE AMORPHOUS METAL
CORE. - UMCCC-40
Colour : BLACK
Base Material/ Raw Material : -
Raw Material Supplier : -
Article No. / Part No. : 1
Grade : -
Buyer's Name : USHA AMORPHOUS METALS LTD.
Manufacturer's Name : -
Date Sample Received : 21 Jan 2019
Style No. : -
Type : -

TEST CONDUCTED: AS REQUESTED BY THE APPLICANT ROHS DIRECTIVE 2011/65/EU FOR DETAILS
REFER TO ATTACHED PAGES

REMARKS :

TESTED COMPONENT OF SUBMITTED SAMPLE MEETS THE REQUIREMENT OF ROHS ANNEX II OF
2011/65/EU AND AMENDMENT (EU) 2015/863.

AUTHORIZED BY
FOR INTERTEK INDIA PRIVATE LIMITED [ANALYTICAL - GURGAON]


RAVINDRA S
DEPUTY LAB MANAGER

TEST REPORT

TEST CONDUCTED:

A) TEST RESULTS SUMMARY OF HEAVY METALS FOR ROHS DIRECTIVE 2011/65/EU

TESTING ITEM	RESULTS
Cadmium (Cd) Content in Ppm	ND (<2)
Lead (Pb) Content in Ppm	22 ppm
Mercury (Hg) Content in Ppm	ND (<2)
Chromium (VI) Content in $\mu\text{G}/\text{cm}^2$ (On Metal)	NEGATIVE (<0.1 $\mu\text{g}/\text{cm}^2$)

Remark: < = LESS THAN, ND = NOT DETECTED, ppm = PARTS PER MILLION

B) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 -5 : 2013, BY MICROWAVE OR ACID DIGESTION AND DETERMINED BY ICP-OES	2 PPM
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 -5 : 2013, BY MICROWAVE OR ACID DIGESTION AND DETERMINED BY ICP-OES	2 PPM
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 -4 : 2013, BY MICROWAVE OR ACID DIGESTION AND DETERMINED BY ICP-OES	2 PPM
CHROMIUM (VI) CONTENT (FOR METAL)@	WITH REFERENCE TO IEC 62321 -7-1:2015; (BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER OR VISUAL OBSERVATION)	0.10 $\mu\text{g}/\text{cm}^2$ with 50 cm^2 (IN TESTING SOLUTION)

C) ROHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd) CONTENT	100 ppm
LEAD (Pb) CONTENT	1000 ppm (40000 ppm FOR BRASS/COPPER MATERIAL) (3500 ppm FOR STEEL) (4000 ppm FOR ALUMINIUM)
MERCURY (Hg) CONTENT	1000 ppm
CHROMIUM (VI) CONTENT	1000 ppm

@THE EXPLANATION OF CHROMIUM VI ANALYSIS RESULT

COLORIMETRIC RESULT	QUALITATIVE RESULT	EXPLANATION
<0.10 $\mu\text{g}/\text{cm}^2$	NEGATIVE	THE RESULT OF SAMPLE IS NEGATIVE FOR CR (VI). THE SAMPLE COATING IS CONSIDERED A NON-CR (VI) BASED COATING.
≥ 0.10 $\mu\text{g}/\text{cm}^2$ And ≤ 50.13 $\mu\text{g}/\text{cm}^2$	INCONCLUSIVE	THE RESULT OF SAMPLE IS CONSIDERED TO BE INCONCLUSIVE. IF ADDITION SAMPLE ARE AVAILABLE, RECOMMEND TO ADD TRIALS AND GET THE AVERAGE RESULT FOR FINAL DETERMINATION.

TEST REPORT

>0.13 µg/cm²

POSITIVE

THE RESULT OF SAMPLE IS POSITIVE FOR CR (VI). THE SAMPLE COATING IS CONSIDERED TO CONTAIN CR (VI). A RESULT EXPRESSES AS POSTIVE, WHILE NOT AN ACTUAL VALUE, WHICH INDICATES A VISUAL OBSERVATION WAS USED.

THE ABOVE LIMITS WERE QUOTED FROM ANNEX II OF 2011/65/EU AND AMENDMENT EU 2015/863 FOR HOMOGENEOUS MATERIAL.

END OF THE TEST REPORT

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