

NUMBER: BOMY19000249 - A DATE: JULY 30<sup>TH</sup>, 2019



**ORIGINAL SAMPLES** 

Intertek India Pvt. Ltd.

"F" wing, 2<sup>nd</sup> Floor, Tex Centre, Chandivali Farm Rd., Chandivali, Andheri-E, Mumbai – (400 072). Registered Office : E-20, Block B-1, Mohan Co-Operative Industrial Area, Mathura Road, New Delhi -110044. Tel : +91 22 4245 0100 <u>www.Intertek.com</u>





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#### **HINDALCO INDUSTRIES LTD** APPLICANT: VILLAGE DAHALI, RAMTEK ROAD, MOUDA NAGPUR, MAHARASHTRA - 441104

#### ATTN: **MS. NEETU KUMARI**

SAMPLE DESCRIPTION	: SAMPLE – 1 (ALUMINUM FOIL)
DATE RECEIVED	: 26 <sup>™</sup> JUNE, 2019
END USE	: FOOD WRAPPING
MANUFACTURER'S NAME	: HINDALCO INDUSTRIES LTD
COUNTRY OF ORIGIN	: INDIA

TESTS CONDUCTED: AS PER THE REQUEST BY THE APPLICANT. FOR FURTHER DETAILS PLEASE REFER TO THE ENCLOSED PAGE (S).

#### CONCLUSION:

TESTED SAMPLE	TEST PARAMETER/STANDARD	<u>RESULT</u>
SAMPLE – 1 (ALUMINUM FOIL)	<b>ROHS TEST</b> (AS PER ROHS DIRECTIVE 2011/65/EU)	м
NOTE: M = MEET CLIENT'S	REQUIREMENT F = BELOW CLIENT'S REQUIREMENT	

NOTE: M = MEET CLIENT'S REQUIREMENT # = NO SPECIFIED REQUIREMENT

N/A = NOT APPLICABLE

#### REMARK:

TEST HAS BEEN PERFORMED AS PER APPLICANT'S REQUEST.
TEST WAS SUB-CONTRACTED TO INTERTEK INDIA PVT. LTD., GURGOAN LAB.

**PREPARED & CHECKED BY** for INTERTEK INDIA PVT. LTD

Sodame

SANJAY SADANA **TECHNICAL MANAGER – HARDLINE** 

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#### TEST CONDUCTED:

### 1. ROHS TEST

[A] TEST RESULTS SUMMARY OF HEAVY METALS FOR ROHS DIRECTIVE 2011/65/EU:

TESTING ITEM	RESULTS IN PPM
	[1]
CADMIUM (Cd) CONTENT IN PPM	ND (<5)
LEAD (Pb) CONTENT IN PPM	ND (<5)
MERCURY (Hg) CONTENT IN PPM	ND (<5)
CHROMIUM (VI) CONTENT IN μg/cm <sup>2</sup>	NEGATIVE
(ON METAL)	<0.1 µg/cm²
CHROMIUM (VI) CONTENT	
(BY ALKALINE DIGESTION ON NON-METAL IN	-
PPM)	

Remark: ppm = PART PER MILION

< = LESS THAN

ND = NOT DETECTED

### **TESTED COMPONENTS:**

1. ALUMINUM FOIL

[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	5 ppm
LEAD (Pb) CONTENT	DETERMINED BY ICP-OES WITH REFERENCE TO IEC 62321 -5 : 2013 ,BY MICROWAVE OR ACID DIGESTION AND DETERMINED BY ICP-OES	5 ppm
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 –4 : 2013 , BY MICROWAVE OR ACID DIGESTION AND DETERMINED BY ICP-OES	5 ppm
CHROMIUM (VI) CONTENT (FOR METAL) [Refer Note 1]	WITH REFERENCE TO IEC 62321 –7-1:2015, (BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER OR VISUAL OBSERVATION)	0.10 μg/cm <sup>2</sup> with 50 cm <sup>2</sup> (IN TESTING SOLUTION)
CHROMIUM (VI) CONTENT (FOR NON-METAL)	WITH REFERENCE TO IEC 62321:2008, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	1 ppm

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#### [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

#### Note 1: THE EXPLANATION OF CHROMIUM VI ANALYSIS RESULT

COLORIMETRIC	QUALITATIVE	EXPLANATION
<u>RESULT</u>	<u>RESULT</u>	
<u>&lt;0.10 μg/cm<sup>2</sup></u>	NEGATIVE	THE RESULT OF SAMPLE IS NEGATIVE FOR CR (VI). THE SAMPLE COATING
		IS CONSIDERED A NON-CR (VI) BASED COATING.
<u>≥0.10 μg/cm²</u>	INCONCLUSIVE	THE RESULT OF SAMPLE IS CONSIDERED TO BE INCONCLUSIVE. IF
<u>And ≤0.13 µg/cm<sup>2</sup></u>		ADDITION SAMPLE ARE AVAILABLE, RECOMMEND TO ADD TRIALS AND
		GET THE AVERAGE RESULT FOR FINAL DETERMINATION.
<u>&gt;0.13 μg/cm<sup>2</sup></u>	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.

Testing Item	Result
Polybrominated Biphenyls (PBBs)	NA*
Polybrominated Diphenyl Ethers (PBDEs)	NA*
Di(2-ethylhexyl) Phthalate (DEHP)	NA*
Dibutyl Phthalate (DBP)	NA*
Benzyl Butyl Phthalate (BBP)	NA*
Diisobutyl Phthalate (DIBP)	NA*

**\*REMARK:** THE ELEMENTS PBB, PBDE'S, DEHP, DBP, BBP AND DIBP ARE NOT APPLICABLE ON METAL PRODUCT (ALUMINUM FOIL).

#### # END OF TEST REPORT #

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