

Test Report

Report No : TUV(I)/8047/18-19/0091801431 PI

Date : 29 Sep 2018



TUV INDIA PRIVATE LIMITED

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Name and address of customer : **Hindalco Industries Ltd.
Plot No-2, MIDC Taloja,
Navi Mumbai
Maharashtra-410208**

Name of the sample : **Freshwrap Aluminum Foil (10.5 Micron)**

Lab sample Id No. : **0091801431**

Batch No./ Code no. : **-**

Date of sample receipt : **10 Sep 2018**

Date(s) of analysis : **12 Sep 2018-28 Sep 2018**

Objectives Of Examination : In accordance with German food Article of daily use & Feed code of september 1,2005(LFGB) sec.30 & 31 with amendments, BfR Recommendations & Regulation EC No. 1935/2004 of the European parliament & of the council of 27th October 2004 of materials and articles intended to come into Contact with Food.

Sample drawn by : Customer

Result Summary

Test Requested	Conclusion
1) To test for "Overall migration" using simulants stated as further report 2) To test for "Specific Migration of Soluble heavy Metals" Tests selected as per customer suggestions.	PASS

Refer further pages for Test Result

Overall migration

Sr. No.	Name of Test	Result	Unit	Limits as per Standard	Test Method
1	Overall Migration using 20% Ethanol	<LOQ	mg/dm ²	10	Based on BS EN 1186 (P1)-2002
2	Overall Migration using 50% Ethanol	<LOQ	mg/dm ²	10	
3	Overall Migration using Distilled Water	<LOQ	mg/dm ²	10	
4-a	Overall Migration using Iso Octane(Vegetable oil substitute)	<LOQ	mg/dm ³	10	Based on BS EN 1186 (P14)-2002
4-b	Overall Migration using 95% Ethanol(Vegetable oil substitute)	<LOQ	mg/dm ²	10	Based on BS EN 1186 (P14)-2002
5	Overall Migration using Tenax E	<LOQ	mg/dm ²	10	Based on BS EN 14338-2003

- Note
- 1) Sample kept in contact with simulant for 10 days at 40°C.
 - 2) Limits are as per Article 12 of the Commission Regulation (EU) No. 10-2011 of 14th Jan. 2011.
 - 3) Detection Limit for above test is 5 mg/dm²

Specific Migration of Soluble Heavy Metals

Sr. No.	Name of Test	Result	Unit	LOQ	Limits as per Standard	Test Method
1	Barium	<LOQ	mg/kg	0.2	1.00	Based on BS EN 13130 (P1) 2004 & Determined by ICP-OES
2	Cobalt	<LOQ	mg/kg	0.02	0.05	
3	Copper	<LOQ	mg/kg	0.2	5.00	
4	Iron	<LOQ	mg/kg	0.2	48.00	
5	Lithium	<LOQ	mg/kg	0.2	0.60	
6	Manganese	<LOQ	mg/kg	0.2	0.60	
7	Zinc	<LOQ	mg/kg	0.2	5.00	

- Note
- 1) Sample kept in contact with distilled water for 10 days at 40°C.
 - 2) Limits are as per Annex-1 in Article 11 of the Commission Regulation (EU) No. 10-2011 of 14th Jan. 2011.

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Sample image is authentic only for the original test report

**Verified by
(Sudheer Badugu)
Sr.Laboratory Analyst**

**Authorized by
(Atulkumar Rajage)
Head - Instrumentation Laboratory**

1. Test Results are based on & related only to the particular sample(s) tested.
2. This Report cannot be re-produced, except when in full, without the written permission from TUV India Pvt. Ltd., Laboratory Division.
3. This Certificate reflects our findings at the time and place of testing.
4. Sample(s) will be retained by us for a period of one month for non-perishable items only. Perishable items will be destroyed after completion of tests.
5. This Report, in full or in part, shall not be used to make any misleading claims or for any legal purposes. For complete report refer P II
6. All terms and conditions of our quotation on the basis of which this testing service has been provided are deemed to be fully accepted by the customer and are deemed to be in full force and effect.
7. This Report is exclusively for the use of the customer whose name and address is indicated above. No third party can derive rights against the company on the basis of this report . No third party has any right to raise any claims on the company.

End of Report

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