

## Test Report

Report No : TUV(I)/1481/24-25/0042406362

Date : 29 May 2024

Name and address of customer : Hindalco Industries Ltd  
One Unity Centre, Tower- 4, 21st Floor, Prabhadevi, Near Prabhadevi Railway Station, Senapati Bapat Marg, Mumbai, Mumbai  
Pincode-400013

Name of the sample : Aluminium Foil - Freshwrap - 11 Micron

REG No. : 1481/24-25

CA No. : 0042406362

Batch No./ Code no. : -

Date of sample receipt : 12 Apr 2024

Date(s) of analysis : 25 Apr 2024 - 29 May 2024

Sample drawn by : Customer


Result Summary :

Test Requested	Conclusion
OTR & WVTR	-

### Water Vapour Transfer Rate & Oxygen Transfer Rate

Sr. No.	Name of Analyte	Result	Unit	Test Conditions	Test Method
1	Water Vapour Transfer Rate	0.1381	gm/m <sup>2</sup> /day	Room Temp.: 23 deg C Test Mode : Cyclic Test Temp. : 38 deg C Test RH : 90% Conditioning Time : 2 Hrs. Test Area : 50 cm <sup>2</sup> Thickness : 11	ASTM F 1249
2	Oxygen Transfer Rate	0.4535	cm <sup>3</sup> /m <sup>2</sup> .day	Room Temp.: 23 deg C Test Mode : Cyclic Test Temp. : 23 deg C Test RH : 0% Conditioning Time : 2 Hrs. Test Area : 50 cm <sup>2</sup> Thickness : 11	ASTM D 3985

Note : Above tests are subcontracted

  
 Authorized by  
**Amit Madhukar Kulkarni**  
 Sr. Manager - Lab Operations

TUV India Private Limited

Registered & Head Office : 801, Raheja Plaza-1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086 . CIN : U74140MH1989PTC052930

Laboratory Address: TUV India House, Survey No: 42, 3/1 & 3/2,Sus, Tal. Mulshi, Dist. Pune - 411 021

Phone : (020) 67900000 / 01 • Toll free : 1800-209-0902 • E-mail : pune@tuv-nord.com • URL: www.tuv-nord.com/in

**TUVNORDGROUP**

**Report No : TUV(I)/1481/24-25/0042406362****Date : 29 May 2024****Terms and Conditions**

1. Test Results are based on & related only to the particular sample(s) tested. In case sample has been provided by customer results apply to the samples as received.
2. This Report cannot be re-produced, except when in full, without the written permission from TUV India Pvt. Ltd.
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. In case Test Report suffixed with PI, PII etc, all parts of the Test Reports should be referred for complete Test Report.
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.
8. The laboratory tests are conducted by TUV India as per mutual agreement without any implied warranty of merchantability and fitness for any general or particular use. TUV India will not be liable for any claims for indirect, incidental or consequential damages including but not limited to loss of revenue, loss of profits and similar claims. TUV India will also not be liable under any strict liability, product liability or negligence. The total liability, scientifically and legally proven, if any, of TUV India, in any case, shall not exceed the invoiced amount for the services provided and paid for.
9. In case NABL symbol is not affixed on Test Reports, indicate that the such parameters are not covered under scope of Accreditation.

-- End of Report --

**TUV India Private Limited****Registered & Head Office :** 801, Raheja Plaza-1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086 . CIN : U74140MH1989PTC052930**Laboratory Address:** TUV India House, Survey No: 42, 3/1 & 3/2, Sus, Tal. Mulshi, Dist. Pune - 411 021

Phone : (020) 67900000 / 01 • Toll free : 1800-209-0902 • E-mail : pune@tuv-nord.com • URL: www.tuv-nord.com/in

## Test Report

**Report No : TUV(I)/1481/24-25/0042406363**

**Date : 29 May 2024**

Name and address of customer : **Hindalco Industries Ltd  
One Unity Centre, Tower- 4, 21st Floor, Prabhadevi, Near Prabhadevi  
Railway Station, Senapati Bapat Marg, Mumbai,  
Mumbai  
Pincode-400013**

Name of the sample : **Aluminium Foil - Freshwrap International - 18 Micron**

REG No. : **1481/24-25**

CA No. : **0042406363**

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

Date of sample receipt : **12 Apr 2024**

Date(s) of analysis : **25 Apr 2024 - 29 May 2024**

**Sample drawn by** : Customer


**Result Summary**

Test Requested	Conclusion
OTR & WVTR	-

### Water Vapour Transfer Rate & Oxygen Transfer Rate

Sr. No.	Name of Analyte	Result	Unit	Test Conditions	Test Method
1	Water Vapour Transfer Rate	0.1226	gm/m <sup>2</sup> /day	Room Temp.: 23 deg C Test Mode : Cyclic Test Temp. : 38 deg C Test RH : 90% Conditioning Time : 2 Hrs. Test Area : 50 cm <sup>2</sup> Thickness : 25	ASTM F 1249
2	Oxygen Transfer Rate	>200	cm <sup>3</sup> /m <sup>2</sup> .day	Room Temp.: 23 deg C Test Mode : Cyclic Test Temp. : 23 deg C Test RH : 0% Conditioning Time : 2 Hrs. Test Area : 50 cm <sup>2</sup> Thickness : 25	ASTM D 3985

Note : Above tests are subcontracted

  
**Authorized by**  
**Amit Madhukar Kulkarni**  
**Sr. Manager - Lab Operations**

**TUV India Private Limited**

**Registered & Head Office** : 801, Raheja Plaza-1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086 . CIN : U74140MH1989PTC052930

**Laboratory Address**: TUV India House, Survey No: 42, 3/1 & 3/2, Sus, Tal. Mulshi, Dist. Pune - 411 021

Phone : (020) 67900000 / 01 • Toll free : 1800-209-0902 • E-mail : pune@tuv-nord.com • URL: www.tuv-nord.com/in

**TUVNORDGROUP**

**Report No : TUV(I)/1481/24-25/0042406363****Date : 29 May 2024****Terms and Conditions**

1. Test Results are based on & related only to the particular sample(s) tested. In case sample has been provided by customer results apply to the samples as received.
2. This Report cannot be re-produced, except when in full, without the written permission from TUV India Pvt. Ltd.
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. In case Test Report suffixed with PI, PII etc, all parts of the Test Reports should be referred for complete Test Report.
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.
8. The laboratory tests are conducted by TUV India as per mutual agreement without any implied warranty of merchantability and fitness for any general or particular use. TUV India will not be liable for any claims for indirect, incidental or consequential damages including but not limited to loss of revenue, loss of profits and similar claims. TUV India will also not be liable under any strict liability, product liability or negligence. The total liability, scientifically and legally proven, if any, of TUV India, in any case, shall not exceed the invoiced amount for the services provided and paid for.
9. In case NABL symbol is not affixed on Test Reports, indicate that the such parameters are not covered under scope of Accreditation.

-- End of Report --

**TUV India Private Limited****Registered & Head Office :** 801, Raheja Plaza-1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086 . CIN : U74140MH1989PTC052930**Laboratory Address:** TUV India House, Survey No: 42, 3/1 & 3/2, Sus, Tal. Mulshi, Dist. Pune - 411 021

Phone : (020) 67900000 / 01 • Toll free : 1800-209-0902 • E-mail : pune@tuv-nord.com • URL: www.tuv-nord.com/in

**TUVNORDGROUP**