

ASTM E 96 TESTING
(WATER METHOD)
ON
AIRKRETE
FOR
AIRKRETE INC.
FEDERAL CONSERVATION CORP.
VTEC 100-4153
TESTED: SEPTEMBER 19 & 20, 2012



VTEC Laboratories Inc.

September 20, 2012

Client: Airkrete Inc
PO Box 380
Weesport NY 13166
Federal Conservation Corp.
1 Kirby Court
Dicks Hill, NY 11746

Attention: R.Keene Christopher, Joey Jacinto

Scope: This report contains the reference to the test method, preparation and conditioning of sample, observation of material, test and post test observation data test results.

Test Method: This test was conducted in accordance with ASTM E 96 specification.

This test method covers the determination of water vapor transmission (WVT) of materials through which passage of water vapor may be of importance. In the Water Method, the test specimen was sealed to the top of the cup containing distilled water and then placed in a test chamber at 90°F with a relative humidity of 50% for 24 hours. The cups were weighed at the beginning and at the end of the 24-hour cycle to determine how much water evaporated.

DISCLAIMER:

This is a factual report of the results obtained from the laboratory test of sample products. The results may be applied only to the products tested and should not be construed as applicable to other similar products of the manufacturer. The report is not a recommendation or disapprobation by VTEC Laboratories, Inc. of the material tested. While this report may be used for obtaining product acceptance, it may not be used in advertising.

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Material Tested:

- 1) Manufacturer: Federal Conservation Corp.
- 2) Product Description: Aircrete
- 3) Color: White
- 4) Number of Specimens: 3
- 5) Surface: Rough
- 6) Material description: by Manufacturer and VTEC
- 7) Date of selection: September 2012
- 9) Test Method: Water Method

Test Results:

<u>Sample #</u>	<u>Sample Thickness (inches)</u>	<u>Weight Before (grams)</u>	<u>Weight After (grams)</u>	<u>Diameter of Exposed Surface (inches)</u>	<u>Exposed Surface Area (sq. ft.)</u>	<u>Saturation Pressure (in. Hg.)</u>
1	2.000	685.2	684.8	2.34	0.1195	1.42
	<u>Relative Humidity in Chamber (RH in Decimal)</u>	<u>Relative Humidity in cup (RH in Decimal)</u>	<u>Water Vapor Transmission (grains/sq. ft. h.)</u>	<u>Permeance perms (grains/sq. ft. h. in. Hg)</u>		
	0.5	1	2.1528	3.0321		
<u>Sample #</u>	<u>Sample Thickness (inches)</u>	<u>Weight Before (grams)</u>	<u>Weight After (grams)</u>	<u>Diameter of Exposed Surface (inches)</u>	<u>Exposed Surface Area (sq. ft.)</u>	<u>Saturation Pressure (in. Hg.)</u>
2	2.000	629.6	628.9	2.34	0.1195	1.42
	<u>Relative Humidity in Chamber (RH in Decimal)</u>	<u>Relative Humidity in cup (RH in Decimal)</u>	<u>Water Vapor Transmission (grains/sq. ft. h.)</u>	<u>Permeance perms (grains/sq. ft. h. in. Hg)</u>		
	0.5	1	3.7673	5.3061		
<u>Sample #</u>	<u>Sample Thickness (inches)</u>	<u>Weight Before (grams)</u>	<u>Weight After (grams)</u>	<u>Diameter of Exposed Surface (inches)</u>	<u>Exposed Surface Area (sq. ft.)</u>	<u>Saturation Pressure (in. Hg.)</u>
3	2.000	692.9	692.1	2.34	0.1195	1.42
	<u>Relative Humidity in Chamber (RH in Decimal)</u>	<u>Relative Humidity in cup (RH in Decimal)</u>	<u>Water Vapor Transmission (grains/sq. ft. h.)</u>	<u>Permeance perms (grains/sq. ft. h. in. Hg)</u>		
	0.5	1	4.3055	6.0641		
AVERAGE PERMS:			4.8008			



Neil Schultz
Executive Director



Amirudin Rahim
Technical Director