



Water Absorption Coefficient

Date 3/18/2003
 Test Method EN 1925:1999 - Natural Stone Test Methods Determination of water absorption coefficient by capillarity
 Test Conditions Temperature of 23 +/-2 degrees C (73+/-4 degrees F) and 50% relative humidity
 Exposure Water immersion to a depth of 3 +/- 1mm
 Exposed Surface Back Face
 Equipment Distilled Water Immersion Tray
 Setra Balance 2000g SN 144363 ITS ID P52606

Time In (mm/dd hh:mm)	Time Out (mm/dd hh:mm)	Measurement	Specimen					
			1	2	3	4	5	6
		Length (mm)	70.3	72.9	70.3	68.5	69.7	73.5
		Width (mm)	68.6	68.9	70.5	70.3	71.1	67.3
		Area (mm ²)	4823	5023	4956	4816	4956	4947
		Weight After						
		0 Minutes (g)	426.09	432.26	428.26	424.60	422.29	434.09
3/18 10:49	3/18 10:50	1 Minute (g)	430.39	437.31	433.18	428.74	426.46	439.51
3/18 10:52	3/18 10:56	5 Minutes (g)	430.39	437.31	433.18	428.74	426.46	444.64
3/18 10:58	3/18 11:02	9 Minutes (g)	430.39	437.31	433.18	428.74	426.46	446.79
3/18 11:05	3/18 11:15	19 Minutes (g)	430.39	437.31	433.18	428.74	426.46	450.04
3/18 11:18	3/18 11:58	1.0 hour (g)	430.39	437.31	433.18	428.74	426.46	457.50
3/18 12:00	3/18 13:01	2.0 hours (g)	430.39	437.31	433.18	428.74	426.46	464.15
3/18 13:05	3/18 15:05	4.0 hours (g)	430.39	437.31	433.18	428.74	426.46	472.76
3/18 15:09	3/18 21:00	9.9 hours (g)	430.39	437.31	433.18	428.74	426.46	487.58
3/18 21:05	3/18 12:37	25.4 hours (g)	430.39	437.31	433.18	428.74	426.46	504.04

Time Square Root (s)	Water Absorption (kg/m ²)					
	1	2	3	4	5	6
0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.7	8.92E-01	1.01E+00	9.93E-01	8.60E-01	8.41E-01	1.10E+00
17.3	1.60E+00	1.79E+00	1.77E+00	1.57E+00	1.83E+00	2.13E+00
23.2	2.00E+00	2.28E+00	2.20E+00	1.95E+00	2.22E+00	2.57E+00
33.8	2.61E+00	3.02E+00	2.88E+00	2.55E+00	2.81E+00	3.22E+00
59.5	3.97E+00	4.78E+00	4.32E+00	3.86E+00	4.11E+00	4.73E+00
84.9	5.10E+00	6.28E+00	5.62E+00	4.99E+00	5.25E+00	6.08E+00
120.0	6.54E+00	8.12E+00	7.37E+00	6.40E+00	6.68E+00	7.82E+00
188.3	9.03E+00	1.12E+01	1.03E+01	8.92E+00	9.23E+00	1.08E+01
302.3	1.20E+01	1.45E+01	1.36E+01	1.17E+01	1.21E+01	1.41E+01
Absorption Coefficient (kg/m ² s ²)	3.93E-02	4.82E-02	4.47E-02	3.85E-02	3.94E-02	4.59E-02
					Mean Result	0.0427 (kg/m ² s ²)
					Coefficient of Variation	9.9%

