



Water Absorption Coefficient

Date 5/12/2003
 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)	70.4	72.9	70.3	70.4	70.6	73.5
		Width (mm)	68.6	69.0	70.2	68.6	69.6	67.4
		Area (mm ²)	4829	5030	4935	4829	4914	4954
		Weight After						
		0 Minutes (g)	420.81	427.44	425.93	422.02	419.91	429.55
5/12 12:34	5/12 12:44	10 Minutes (g)	428.36	434.60	434.80	430.92	429.40	438.34
5/12 12:44	5/12 13:06	32 Minute (g)	435.66	440.93	440.15	437.96	435.27	443.41
5/12 13:08	5/12 14:01	85 Minutes (g)	443.60	448.45	446.46	446.71	442.74	449.76
5/12 14:03	5/12 16:14	216 Minutes (g)	453.04	458.28	455.71	457.14	452.73	457.98
5/12 14:17	5/12 20:18	9.6 hours (g)	461.23	466.79	464.47	465.79	461.49	465.79
5/12 20:20	5/13 14:00	27.3 hours (g)	475.12	481.58	480.16	479.76	477.18	480.93
5/13 14:03	5/16 08:08	93.4 hours (g)	487.41	496.27	495.13	490.27	490.51	495.18
5/16 08:11	5/20 10:10	191 hours (g)	493.13	502.79	500.82	493.70	495.60	501.25
5/20 01:15	5/21 13:03	218 hours (g)	493.98	503.85	501.75	494.39	496.15	501.87

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
24.5	1.56E+00	1.42E+00	1.80E+00	1.84E+00	1.93E+00	1.77E+00
43.8	3.07E+00	2.68E+00	2.88E+00	3.30E+00	3.13E+00	2.80E+00
71.4	4.72E+00	4.18E+00	4.16E+00	5.11E+00	4.65E+00	4.08E+00
113.8	6.67E+00	6.13E+00	6.03E+00	7.27E+00	6.68E+00	5.74E+00
186.1	8.37E+00	7.82E+00	7.81E+00	9.06E+00	8.46E+00	7.32E+00
313.4	1.12E+01	1.08E+01	1.10E+01	1.20E+01	1.17E+01	1.04E+01
579.8	1.38E+01	1.37E+01	1.40E+01	1.41E+01	1.44E+01	1.32E+01
830.0	1.50E+01	1.50E+01	1.52E+01	1.48E+01	1.54E+01	1.45E+01
886.2	1.52E+01	1.52E+01	1.54E+01	1.50E+01	1.55E+03	1.46E+01
984.2	1.55E+01	1.55E+01	1.57E+01	1.52E+01	1.58E+01	1.49E+01
Absorption Coefficient (kg/m ² s ²)	3.48E-02	3.35E-02	3.35E-02	3.69E-02	3.56E-02	3.14E-02
					Mean Result	0.0343 (kg/m ² s ²)
					Coefficient of Variation	8.1%

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