

Low Power Table No. 2

Compressive Strength (P.S.I.) (Mpa)

Important Instructions

Exposed Probe (inches)	PSI Mohs' NO. 3	Mpa Mohs' NO. 3	PSI Mohs' NO. 4	Mpa Mohs' NO. 4	PSI Mohs' NO. 5	Mpa Mohs' NO. 5	PSI Mohs' NO. 6	Mpa Mohs' NO. 6	PSI Mohs' NO. 7	Mpa Mohs' NO. 7
1.125	525	3.62	-	-	-	-	-	-	-	-
1.15	625	4.31	-	-	-	-	-	-	-	-
1.175	725	5.00	450	3.10	-	-	-	-	-	-
1.2	800	5.51	525	3.62	-	-	-	-	-	-
1.225	900	6.20	600	4.13	-	-	-	-	-	-
1.25	1000	6.89	675	4.65	-	-	-	-	-	-
1.275	1075	7.41	750	5.17	-	-	-	-	-	-
1.3	1175	8.10	825	5.69	450	3.10	-	-	-	-
1.325	1250	8.62	900	6.20	525	3.62	-	-	-	-
1.35	1325	9.14	975	6.72	600	4.13	-	-	-	-
1.375	1400	9.65	1075	7.41	700	4.82	-	-	-	-
1.4	1500	10.3	1150	7.93	775	5.34	-	-	-	-
1.425	1575	10.8	1225	8.45	875	6.03	400	2.75	-	-
1.45	1650	11.3	1300	8.96	975	6.72	500	3.44	-	-
1.475	1725	11.9	1400	9.65	1050	7.24	600	4.13	-	-
1.5	1850	12.7	1500	10.3	1150	7.93	700	4.82	-	-
1.525	1925	13.2	1575	10.8	1250	8.62	800	5.51	-	-
1.55	2000	13.7	1675	11.5	1325	9.14	900	6.20	450	3.10
1.575	2075	14.3	1750	12.0	1425	9.83	1000	6.89	550	3.79
1.6	2150	14.8	1850	12.7	1525	10.5	1100	7.58	650	4.48
1.625	2250	15.5	1950	13.4	1600	11.0	1200	8.27	750	5.17
1.65	2325	16.0	2025	13.9	1700	11.7	1300	8.96	875	6.03
1.675	2400	16.5	2100	14.4	1800	12.4	1400	9.65	975	6.72
1.7	2500	17.2	2200	15.1	1875	12.9	1500	10.3	1075	7.41
1.725	2575	17.7	2275	15.6	1975	13.6	1600	11.0	1175	8.10
1.75	2650	18.2	2375	16	2075	14.3	1700	11.7	1275	8.79
1.775	2750	18.9	2450	16.9	2150	14.8	1800	12.4	1400	9.65
1.8	2825	19.4	2550	17.5	2250	15.5	1900	13.1	1500	10.3
1.825	2900	20.0	2650	18.2	2350	16.2	2000	13.7	1600	11.0
1.85	3000	20.6	2725	18.7	2425	16.7	2100	14.4	1725	11.9
1.875	3075	21.2	2800	19.3	2525	17.4	2200	15.1	1825	12.5
1.9	3150	21.7	2900	20.0	2625	18.1	2300	15.8	1925	13.2
1.925	3250	22.4	2975	20.5	2700	18.6	2400	16.5	2050	14.1
1.95	3325	22.9	3075	21.2	2800	19.3	2500	17.2	2150	14.8
1.975	3400	23.4	3150	21.7	2900	20.0	2600	17.9	2250	15.5
2	3475	23.9	3250	22.4	2975	20.5	2700	18.6	2375	16.3
2.025	3550	24.4	3350	23.1	3075	21.2	2800	19.3	2475	17.0
2.05	3650	25.1	3425	23.6	3175	21.9	2900	20.0	2575	17.7
2.075	3750	25.8	3500	24.1	3250	22.4	3000	20.6	2700	18.6
2.1	3850	26.5	3600	24.8	3350	23.1	3100	21.3	2800	19.3
2.125	3925	27.0	3675	25.3	3450	23.8	3200	22.0	2900	20.0
2.15	4000	27.5	3775	26.0	3525	24.3	3300	22.7	3025	20.8
2.175	4075	28.1	3850	26.5	3625	25.0	3400	23.4	3125	21.5
2.2	4150	28.6	3950	27.2	3725	25.6	3500	24.1	3250	22.4
2.225	4250	29.3	4050	27.9	3800	26.2	3600	24.8	3350	23.1
2.25	4350	30.0	4125	28.4	3900	26.9	3700	25.5	3475	23.9
2.275	4425	30.5	4200	28.9	4000	27.5	3800	26.2	3575	24.6
2.3	4500	31.0	4300	29.6	4075	28.1	3900	26.9	3675	25.3
2.325	4575	31.5	4375	30.1	4175	28.8	4000	27.5	3800	26.2
2.35	4650	32.0	4475	30.8	4275	29.4	4100	28.2	3900	26.9
2.375	4750	32.7	4550	31.3	4350	30.0	4200	28.9	4000	27.5
2.4	4825	33.2	4650	32.0	4450	30.7	4300	29.6	4125	28.4
2.425	4900	33.8	4750	32.7	4550	31.3	4400	30.3	4225	29.1
2.45	5000	34.4	4825	33.2	4675	32.2	4500	31.0	4350	30.0
2.475	-	-	4900	33.8	4750	32.7	4600	31.7	4450	30.7
2.5	-	-	5000	34.4	4825	33.2	4700	32.4	4575	31.5

This Table is used only for the *LOW POWER* range of the Windsor Probe System, i.e. the probe is positioned 2 ½ inches downstream in the driver barrel.

The Table represents the results of calibration the system to the low velocity of the probe at the *LOW POWER* position.

ALWAYS use the low power range for testing concrete less than 28 days after placement or until the concrete has cured sufficient to cause loose probes (approximately 3800 to 4500 psi). If the probes are not firmly embedded change to Standard Power.

This Table Number 2, has no fixed relationship to Table Number 1. Each Table has been calibrated independently to respective probe velocity.

Always confirm the Mohs' number of the course aggregate with a Mineral Scratch Test or calibrate the System to standard cylinders.

For standard weight concrete (>125 lbs/cu ft) use Silver color PRS-01 (1/4 inch diameter probe) and read results in appropriate Mohs' column from Table Number 2.

For lightweight concrete (120 to 130 lbs/cu ft), use Gold color PRS-03 (5/16 inch diameter probe) and read results in Mohs' Number 3 column from Table Number 2 or apply the appropriate correction factor shown in the L.W. Table below:

Lbs/cu/ft	Correction Factor
130 to 121	100% of Mohs' 3 Column
120 to 115	84% of Mohs' 3 Column
114 to less	66% of Mohs' 3 Column

For mortar (no coarse aggregate concrete), use appropriate probe for concrete weight and read results in Mohs' Number 3 column from the Table.

The Windsor Probe Test System apparatus complies with ASTM C803.

The Precision of Probes is set forth in the Statement prepared by ASTM in accordance with C670.