

Compaction Test Data Wet Density Determination

Test No	1	2	3	4	5	6	7	8
Wt. of cylinder + wt of Soil (g)	6725.5	6769.0	6887.5	6974.1	7030.2	7079.0	7041.1	6998.9
Wt . of cylinder (g)	5100	5100	5100	5100	5100	5100	5100	5100
Wt. of Wet Soil (g)	1625.5	1669.0	1787.5	1874.1	1930.2	1979.0	1941.1	1898.9
Wet density (g/cm 3)	1.72	1.76	1.89	1.98	2.04	2.09	2.05	2.01

Moisture Content Determination

Bottle No	1	2	3	4	5	6	7	8
Wt. of Wet soil + bottle (g)	77.1	62.3	84.7	84.8	60.9	62.4	64.6	63.8
Wt. of dried soil + bottle (g)	69.8	57.1	75.9	75.5	54.2	54.9	56.6	55.5
Wt. of bottle (g)	24.4	24.8	25.0	25.1	25.1	24.6	24.4	24.4
Wt. of dry soil (g)	45.4	32.3	50.9	50.4	29.1	30.3	32.2	31.1
Wt. of moisture (g)	7.3	5.2	8.8	9.3	6.7	7.5	8.0	8.3
Moisture content (g)	16	16	17	18	23	25	25	27

Dry density bs/cu ft	0.101	0.103	0.105	0.104	0.085	0.080	0.078	0.071
----------------------	-------	-------	-------	-------	-------	-------	-------	-------

Max . Dry Density (rd) = 0.105 Ibs/cu. Ft

Optimum Water content (Wc) = 17%