


Aashto t180 vs astm d1557

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Soil compacting tests are frequently called "Standard Proctor" and "Modified Proctor". The specifications typically require a standard prosector or a modified prosector, and usually specify a test name as ASTM D68, for example. Both times are used, variables with design requirements. 194; 160; Standard proctors provide less compact effort than the Modified Proctors. 194; 160; The Modified Test Proctor of the same land will produce a higher maximum density and a lowest optimal humidity content. Proctor Test are carried out in the laboratory to determine the maximum density, in dry pounds per cubic foot, of the soil subjected to test and its corresponding optimal humidity that is practically feasible in the field. 194; 160; Then density tests are performed on site and compare with field density. For example, if the maximum density of soil is 130.0 PCF and the field density test is 125.5 PCF dry, the PCF IN-Place is 128; 126; 126.5; 127; 127.5; 128; 128.5; 129; 129.5; 130. The specifications of the project require that the land is compacted at a percentage, usually 96% to 99%. Typically, the specifications of the project require that the land is compacted at a percentage, usually 96% to 99%. Equipment, procedures and methods for determining the results of the body of engineer 226; 126; 126.5; 127; 127.5; 128; 128.5; 129; 129.5; 130. are the ASTM D698 and Aashto T-99. The Proctor and ASTM D1557 and Aashto T-180 methods are used. The modified Proctor Test is used to determine the compaction of different soil types and soil properties with a change in moisture content; and the Standard Proctor Test with few differences that you know here in detail. So, let's go ahead. 1. Theory: Compaction is the densification of unsaturated soil with the reduction of the volume of air-filled voids, while the main purpose of soil compaction is to increase the cutting force, decrease compressibility, reduce permeability, and control the swelling of the soil. The degree of compaction of the soil is measured in terms of dry density. The modified Proctor Test is of great importance and is widely used in the construction of roads, highways, dams filled with earth, ground filling, airport, etc. In modified Proctor test, the ground is compacted in five (5) layers with a 10 lbs (4.5 kg) frame with an 18-inch drop (45 cm). Sieve Analysis of Soil: Its determination, Theory, Precautions. 1. AASHTO 160; T180-90 2. D1557-91 3. BS1377 Part 4; Clause 4. 3. Apparatus. 1. Cylindrical Metal Mould, internal diameter 4 in (10.16 cm) or 60 128; 126; 126.5; 127; 127.5; 128; 128.5; 129; 129.5; 130. (15.24 cm), effective internal height of 4.56 (11.7 cm); and mold mold have a detachable base plate - color 2AAS 5.08 cm. 2. Rammer, weighing 10 lbs (4.5 kg) and falling 18 inches (45.7 cm). 3. Sensitive balance, ranging from 1 gram to 0.1 gram. 4! thermostatic furnace (105°C to 160, -110°C). 5. Straight steel. 6. Moisture containers. 7. Sieve No. 4. 8. Tray... scoop. 9! A graduated cylinder. 10. Mixing tools (spoon, trowel, spatula). 4! Modified Proctor test procedure: 1. Take about 4 kg of dried soil in the passing air No. 4 sieve and mix it with an optimal amount of water. 2. Weigh the empty mold without collar, with base plate attached. 3. Place the mold with the collar fixed on a solid base and compact the ground mass into the mold using the standard five-layer compaction with twenty strokes per layer; and with a 4.5 kg rammer falling from a height of 45 cm. Be careful to distribute the blows evenly over the surface of each layer and to let the rammer fall freely. 4! Remove the collar gently remove the projected part of the compact floor from the straight edge of the steel. Then weigh the mold soil. 5. Remove the compact soil sample from the mold and divide it on a large tray. Take a sample for the determination of moisture content. 6. Divide the sample at sieve size 4 and mix with the rest of the original sample. Add appropriate increments of water and mix thoroughly for at least six tests. Repeat steps 3 to 5 for each test. 7. Draw the compaction curve on a graph with dry density on the content of coordinates and humidity on the x-axis. The maximum dry density must be at the apex of the curve and at the optimum moisture content (OMC) at which the maximum dry density is obtained. 5. Observation and Calculations. Determination of moisture content. Note: 194; wt. = weight. Cont: = Container Density Determination. Note: wt. = weight. = container. gm = grams. cc = cm³ 6. The result of the soil compaction test. Maximum Density Dry of Soil w_{max} . The latter are as follows: 7. Precautions. 1. It is add 1% of water by weight to the evaporation loss account. 2. Apply 25 rounds for the capacity of 1000 ml mold and 56 rounds for the capacity of 2250 ml. 3. In most cases, take two M.C. samples, one near the top and the other near the bottom for each test. Four: Mix the water thoroughly. Five: Soil must be dried in the air and pass through the sieve n. Four. Six: The compaction should be done in specified layers, and each part should be compacted correctly. 7. The increase in water content should be 2-3%. Eight. Questions and answers about the modified Proctor Test. D.1: What is the difference between the maximum dry density obtained in the standard and modified proctor tests? Ans: In the standard compaction test, the maximum dry density is obtained with a higher moisture content than the modified Proctor Test and vice versa. D.2: Define compaction energy. Ans: The energy needed to compact the soil is known as compaction energy. D.3: What is the difference between the standard WTO compaction test and the modified Proctor test? Answer: In the modified Proctor test the moisture content will be required in smaller quantities to obtain the MCA and vice versa for the standard Proctor test.

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