

Research of test method for theoretic maximum specific gravity of asphalt concrete

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Abstract: The theoretic maximum specific gravity is an important index of asphalt concrete, so the test method is also very important. The current test standard has given 3 kinds of methods for testing the theoretical maximum specific gravity of asphalt concrete. In this article, the theoretic maximum specific gravity of asphalt concrete was tested by different methods applied in the current test standard, and the disadvantages of each method are discussed. At the same time, 3 kinds of aggregates with different water absorption have been used to study how the water absorption affects the results. The influence of different test methods is analyzed and suggestions are given.

Key words: Asphalt concrete; Theoretic maximum specific gravity; Porosity