

Tests and Criteria to Measure the Effects of Mineral Filler on Hot-Mix Asphalt

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Session Duration: 90 Minutes

Mineral filler plays an important role in the construction and performance of hot-mix asphalt (HMA) pavements. Until recently, testing the quality of mineral filler has been limited. Testing mineral filler in advance could enable transportation professionals to better determine the performance of mineral filler when mixed with HMA.

National Cooperative Highway Research Program (NCHRP) Project 9-45 seeks to identify or develop test methods for mineral filler that characterize its mechanical and chemical effects on the performance of mastics (combinations of asphalt binder and mineral filler) and HMA. Webinar presenter Hussain Bahia will discuss how the properties of mineral fillers used in hot-mix asphalt (HMA) affect the performance characteristics of mastics and HMA paving mixes. He will present test methods and specification criteria that may be used evaluate and control the effects of mineral filler on HMA performance, particularly the development of permanent deformation, fatigue cracking, and moisture damage.

Webinar presenter: Dr. Hussain Bahia from the University of Wisconsin-Madison

Moderated by: Ed Harrigan, Transportation Research Board