

### NCHRP Report 405

## Aggregate Tests Related to Asphalt Concrete Performance in Pavements

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# **Aggregate Tests Related To Asphalt Concrete Performance In Pavements**

Prithvi S. Kandhal, Frazier Parker

#### **Aggregate Tests Related To Asphalt Concrete Performance In Pavements:**

Aggregate Tests Related to Asphalt Concrete Performance in Pavements Prithvi S. Kandhal, Frazier Parker, 1998 Aggregate Tests Related to Asphalt Concrete Performance in Pavements National Research Council (U.S.).

Transportation Research Board,1998 Aggregate Tests for Hot-mix Asphalt Mixtures Used in Pavements Thomas D. White,Erza Rismantojo,National Cooperative Highway Research Program,2006 Aggregate Test Related to Asphalt Concrete Perfomance in Pavements Prithvi S. Kandhal,Frazier Parker,1998 Asphalt-aggregate Mixture Analysis System, AAMAS National Research Council (U.S.). Transportation Research Board,1991 Guide for Pavement Friction ,2008 This report contains guidelines and recommendations for managing and designing for friction on highway pavements The contents of this report will be of interest to highway materials construction pavement management safety design and research engineers as well as others concerned with the friction and related surface characteristics of highway pavements

Pavement Engineering Rajib B. Mallick, Tahar El-Korchi, 2022-12-30 Pavement Engineering Principles and Practice examines a wide range of topics in asphalt and concrete pavements from soil preparation and structural design to life cycle costing and economic analysis This updated Fourth Edition covers all concepts and practices of pavement engineering in terms of materials design and construction methods for both flexible and rigid pavements and includes the latest developments in recycling sustainable pavement materials and resilient infrastructure New and updated topics include material characterization concepts and tests pavement management concepts probabilistic examples of life cycle cost analysis end of life considerations waste plastic in asphalt pervious concrete pavement monitoring instrumentation and data acquisition and more The latest updated references state of the art reviews and online resources have also been included

A Manual for Design of Hot Mix Asphalt with Commentary ,2011 Test Methods for Characterizing Aggregate Shape, Texture, and Angularity Eyad Masad, National Cooperative Highway Research Program, 2007 Investigation of Testing Methods to Determine Long-term Durability of Wisconsin Aggregates ,2013 Approximately 10 to 11 million tons of aggregates are utilized in transportation infrastructure projects in Wisconsin annually The quality of aggregates has a tremendous influence on the performance and durability of roadways and bridges In this Phase II research study detailed statistical analyses were performed on over 1 000 sets of historical aggregate test results and the experimental results from the Phase I study Test results from other states were analyzed as well Aggregate tests were performed on 12 known marginal or poor Wisconsin aggregates to specifically address test performance of such aggregates Selected aggregates were scanned using X ray computed tomography to assess the effects of freeze thaw and sodium sulfate exposure on the internal void system The results of multi parameter logistic regression analyses show that the pass fail outcomes of the Micro Deval test can be predicted when LA abrasion absorption and sodium sulfate soundness test results are known The unconfined freeze thaw test outcomes cannot be predicted from results of other tests not correlated Therefore the unconfined freeze thaw test

should be part of any test protocol as it measures an aggregate characteristic that cannot be obtained from other tests The percentiles associated with any proposed acceptance threshold limits for various aggregate tests should be determined using Comparative Analysis of Coarse Surfacing Aggregate Using Micro-Deval, L.A. the statistical data provided Abrasion and Sodium Sulfate Soundness Tests Eli Cuelho, Robert Mokwa, Keely Obert, 2007 Aggregates used in the construction of roads must be durable abrasion resistant and freeze thaw resistant in order to perform well in pavement or as base course The objective of this study was to investigate whether the Micro Deval test will provide better timelier and more repeatable information about the quality of an aggregate than the Sodium Sulfate Soundness test This objective was met by 1 conducting a thorough literature review 2 testing a variety of soils from across Montana and 3 analyzing these results to reveal potential trends The literature review indicated that the Micro Deval test has good repeatability characteristics and that it correlates well to field performance Laboratory tests Micro Deval L A Abrasion and Sodium Sulfate were conducted on a variety of soil types to examine the repeatability of each test method and to examine how well the methods correlate with each other in terms of predicting aggregate durability and degradation Test results were normalized to facilitate direct comparisons between the three methods Linear regression of the data points and corresponding confidence intervals were plotted to qualitatively assess agreement or disagreement between test methods The authors concluded that the Micro Deval test is a suitable replacement for the Sodium Sulfate test as the primary method for evaluating aggregate durability with limitations Because there were some inconsistent durability determinations between test methodologies the authors recommend that the Micro Deval test results be further supported by a second aggregate durability test whenever the Micro Deval results fall between the cutoff value and plus 30 percent of the cutoff value In other words when the Micro Deval test result for an aggregate is between 18 and 24 percent loss a second test using an alternate method is recommended before any conclusions are made regarding the durability or quality of an aggregate **Testing Methods to Determine Long Term Durability of Wisconsin Aggregate Resources**, 2005 Advances in Pavement Design through Full-scale Accelerated Pavement Testing David Jones, John Harvey, Imad L. Al-Qadi, Angel Mateos, 2012-10-08 Pack Book and CDInternationally full scale accelerated pavement testing either on test roads or linear circular test tracks has proven to be a valuable tool that fills the gap between models and laboratory tests and long term experiments on in service pavements Accelerated pavement testing is used to improve understanding of pavement behavior Bicycle and Pedestrian Research, 1998 National Research Council (U.S.). Transportation Research Board, 1998 **Significant Findings from Full-scale** Accelerated Pavement Testing Wynand JvdM. Steyn, 2012 TRB's National Cooperative Highway Research Program NCHRP Synthesis 433 Significant Findings from Full Scale Accelerated Pavement Testing documents and summarizes significant findings from the various experimental activities associated with full scale accelerated pavement testing f sAPT programs that have taken place between 2000 and 2011 The report also identifies gaps in knowledge related to f sAPT and where

future research may be needed NCHRP Synthesis 433 is designed to expand the f sAPT base of knowledge documented in NCHRP Syntheses 325 and 235 both with the same title of Significant Findings from Full Scale Accelerated Pavement Testing f sAPT is the controlled application of a wheel loading at or above the appropriate legal load limit to a pavement system to determine pavement response in a compressed time period. The acceleration of damage is achieved by one or more of the following factors increased repetitions modified loading conditions imposed climatic conditions and thinner pavements with a decreased structural capacity which have shorter design lives Aggregate Toughness/abrasion Resistance and Durability/soundness Tests Related to Asphalt Concrete Performance in Pavements, 1998 **Innovations and Uses for** Asphalt Materials Science and Technology James G. Speight, 2015-10-01 Asphalt is a **Lime** Daniel D. Walker,1991 complex but popular civil engineering material Design engineers must understand these complexities in order to optimize its use Whether or not it is used to pave a busy highway waterproof a rooftop or smooth out an airport runway Asphalt Materials Science and Technology acquaints engineers with the issues and technologies surrounding the proper selection and uses of asphalts With this book in hand researchers and engineering will find a valuable guide to the production use and environmental aspect of asphalt Covers the Nomenclature and Terminology for Asphalt including Performance Graded PG Binders Asphalt Cement AC Asphalt Rubber A R Binder Asphalt Emulsion and Cutback Asphalt Includes Material Selection Considerations Testing and applications Biodegradation of Asphalt and environmental aspects of asphalt use An Interim Report Covering a 17-country Inventory International Road Federation, 1966 **Focus** .1989

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