

NEBRASKA DEPARTMENT OF ROADS
MATERIALS AND RESEARCH DIVISION



STANDARD METHODS OF TESTS

May 2011

Standard Methods of Tests Safety Statement

These standards may involve hazardous materials, operations, and equipment. They do not purport to address all safety problems associated with use. It is the responsibility of whomever uses this standard to consult and establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

**INDEX OF APPLICABLE
LABORATORY TEST METHODS
(For information, by Title Only)**

ASTM C 25	Standard Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime
NDR T 27	Sieve Analysis of Fine and Coarse Aggregates
AASHTO T 30	Mechanical Analysis of Extracted Aggregate
AASHTO T 289	Determining pH of Soil for Use in Corrosion Testing
AASHTO T 288	Determining Minimum Laboratory Soil Resistivity
AASHTO T 84	Specific Gravity and Absorption of Fine Aggregate <u>for Asphalt</u>
NDR T 84	Specific Gravity and Absorption of Fine Aggregate <u>for PCC</u>
AASHTO T 85	Specific Gravity and Absorption of Coarse Aggregate
AASHTO T 87	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test
AASHTO T 89	Determining the Liquid Limit of Soils
AASHTO T 90	Determining the Plastic Limit and Plasticity Index of Soils
NDR T 103	Soundness of Aggregates by Freezing and Thawing

AASHTO T 99	Moisture-Density Relations of Soils Using a 5.5-lb. Rammer and a 12-in. Drop
ASTM C 174	Test Method for Measuring Length of Drilled Concrete Cores
AASHTO T 283	Resistance of Compacted Bituminous Mixture to Moisture-Induced Damage
AASHTO T 166	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Saturated Surface-Dry Specimens
AASHTO T 19	Bulk Density (Unit Weight) and Voids in Aggregate
AASHTO T 21	Organic Impurities in Fine Aggregate for Concrete
AASHTO T 96	Resistance of Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
AASHTO T 104	Soundness of Aggregate by Use of Sodium Sulfate
AASHTO T 176	Plastic Fines in Graded Aggregate and Soils by Use of the Sand Equivalent
AASHTO T 248	Reducing Samples of Aggregate to Testing Size
AASHTO T 255	Total Moisture Content of Aggregates by Drying
ASTM D 4791	Flat and Elongated Particles in Coarse Aggregate
ASTM D 5821	Determining the Percentage of Fractured Particles in Coarse Aggregate

INDEX OF APPLICABLE FIELD TEST METHODS

NOTE:	For all NDR Laboratory, AASHTO, and ASTM Test Methods refer to the AASHTO Manuals or the individual NDR or ASTM Test Methods, which are maintained and filed for reference in all Branch or Central Laboratories.
--------------	--

Only NDR Field Test Methods are included in this Manual.

NDR T 2	Sampling Aggregates
ASTM C 31	Making and Curing Concrete Test Specimens in the Field
NDR T 27	Sieve Analysis of Fine and coarse Aggregates
AASHTO T 40	Sampling Bituminous Materials – Attachment 1
ASTM C 143/C 143M	Slump of Portland Cement Concrete
ASTM C 138	Weight per Cubic Foot, yield, and Air content of Concrete
ASTM C 172	Sampling of Fresh Concrete
ASTM C 231	Air content of Freshly Mixed Concrete by the Pressure Method
AASHTO T 168	Sampling Bituminous Paving Mixtures
AASHTO T 195	Determining Degree of Particle Coating of Bituminous Mixtures
NDR T 205	Density of Soil In-Place by the Rubber Balloon Method
NDR T 238	In-Place Moisture Density of Soils by Nuclear Methods
AASHTO T 248	Reducing Field Samples of Aggregate to Testing Size

AASHTO T 255	Total Moisture Content of Aggregate by Drying
NDR T 504	Determination of Clay Lumps, Shale, and Soft Particles in Coarse Aggregate and of Clay Lumps in Fine Aggregate and Sand Gravel Aggregate
NDR T 505	Moisture-Density Relations of Soils Using the One-Point Method
NDR T 506	Determination of the Free Moisture Content of Aggregate
NDR T 572	Selection of Sampling Locations of Asphaltic Concrete
NDR T 587	Density of Bituminous Concrete In-Place by Nuclear Methods
AASHTO T 290	Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
AASHTO T 245	Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus
AASHTO T 265	Laboratory Determination of Moisture content of Soils
NDR T 504	Determination of Clay Lumps, Shale, and Soft Particles in Coarse Aggregate and of clay Lumps in Fine Aggregate and Sand Gravel Aggregate
ASTM C 187	Test Method for Normal Consistency of Hydraulic Cement (False Set of Portland Cement)
ASTM D 5329	Test Methods for Sealants and Fillers, Hot-Applied, For Joints and Cracks in Asphaltic and Portland Cement Concrete Pavements
AASHTO T 304	Uncompacted Void Content of Fine Aggregate

AASHTO T 308

Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method

NOTE:

For all NDR Laboratory, AASHTO, and ASTM Test Methods refer to the AASHTO Manuals or the individual NDR or ASTM Test Methods, which are maintained and filed for reference in all Branch or Central Laboratories.