

NEBRASKA DEPARTMENT OF
TRANSPORTATION
MATERIALS AND RESEARCH DIVISION

NEBRASKA

A yellow swoosh graphic that starts under the 'N', goes under the 'E', 'B', 'R', 'A', 'S', 'K', and ends under the 'A'.

Good Life. Great Journey.

DEPARTMENT OF TRANSPORTATION

STANDARD METHODS OF TESTS

August 11, 2017

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)**

AASHTO T 11	Material Finer than \pm 200 Sieve in Aggregate by Washing
AASHTO T 19	Bulk Density (Unit Weight) and Voids in Aggregate
AASHTO T 21	Organic Impurities in Fine Aggregate for Concrete
AASHTO T 30	Mechanical Analysis of Extracted Aggregate
AASHTO T 84	Specific Gravity and Absorption of Fine Aggregate for Asphalt
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
AASHTO T 96	Resistance of Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

AASHTO T 99	Moisture-Density Relations of Soils Using a 5.5-lb Rammer and a 12-in Drop
AASHTO T 104	Soundness of Aggregate by Use of Sodium Sulfate
AASHTO T 166	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Saturated Surface-Dry Specimens
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
AASHTO T 283	Resistance of Compacted Bituminous Mixture to Moisture-Induced Damage
AASHTO T 288	Determining Minimum Laboratory Soil Resistivity
AASHTO T 289	Determining pH of Soil for Use in Corrosion Testing
ASTM C 25	Standard Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime
ASTM C 174	Test Method for Measuring Length of Drilled Concrete Cores
ASTM D 4791	Flat and Elongated Particles in Coarse Aggregate

ASTM D 5821	Determining the Percentage of Fractured Particles in Coarse Aggregate
<u>NDOT 1952</u>	Water Resistance of Traffic Paint
<u>NDOT C 25</u>	Gravimetric Determination of Calcium Oxide in Aggregate
<u>NDOT C 25</u>	Gravimetric Determination of Calcium Oxide in Traffic Paint
<u>NDOT C 114</u>	Alkali Content in Water
<u>NDOT C 114</u>	Freelime Content
<u>NDOT C 114</u>	Insoluble Residue
<u>NDOT C 1602</u>	Standard Test Method for Mixing Water Used in the Production of Hydraulic Cement Concrete
<u>NDOT D 512</u>	Standard Test Method for Chloride Ion in Water
<u>NDOT D 522</u>	Flexibility of Traffic Paint
<u>NDOT D 711</u>	No-Pick-Up Time of Traffic Paint
<u>NDOT D 969</u>	Degree of Bleeding in Traffic Paint
<u>NDOT D 1177</u>	Freezing Point of Deicers
<u>NDOT D 1429</u>	Specific Gravity of Deicers

<u>NDOT D 1475</u>	Density of Waterborne Traffic Paint
<u>NDOT D 1640</u>	Drying Time, Dry-Through of Traffic Paint
<u>NDOT D 2369</u>	Total Solids Analysis of Solvent-Based Traffic Paint
<u>NDOT D 2369</u>	Total Solids of Waterborne Traffic Paint
<u>NDOT D 2371</u>	Pigment and Vehicle Analysis of Solvent-Based Traffic Paint
<u>NDOT D 2621</u>	Infrared Analysis of Vehicle of Solvent-Based Traffic Paint
<u>NDOT D 2805</u>	Contrast Ratio Traffic Paint
<u>NDOT D 2805</u>	Reflectance of Traffic Paint
<u>NDOT D 3723</u>	Pigment Content of Waterborne Traffic Paint
<u>NDOT D 4764</u>	Titanium Dioxide in Traffic Paint
<u>NDOT D 4956</u>	Testing of Retroreflective Sheeting
<u>NDOT E 70</u>	pH of Waterborne Traffic Paint
<u>NDOT E 1349</u>	Color of Yellow Traffic Paint
<u>NDOT E 1349</u>	Reflectance of Traffic Paint
<u>NDOT M 247</u>	Type 1 Coarse Dual-Coated Bead Gradation
<u>NDOT M 290</u>	Testing of Reflectors for Heat Resistance

<u>NDOT M 290</u>	Testing of Reflectors for Seal
<u>NDOT T 27</u>	Sieve Analysis of Fine and Coarse Aggregates
<u>NDOT T 84</u>	Specific Gravity and Absorption of Fine Aggregate for PCC
<u>NDOT T 103</u>	Soundness of Aggregates by Freezing and Thawing
<u>NDOT T 105</u>	Determination of Chloride Content in Cement
<u>NDOT T 113</u>	Lightweight Pieces in Aggregate
<u>NDOT T 257</u>	Testing of Reflectors for Specific Intensity
<u>NDOT T 260</u>	Determination of Chloride Content in Cement Cores
<u>NDOT T 290</u>	Determination of Water-Soluble Sulfate Ion Content in Soil
<u>NDOT T 290</u>	Determination of Water-Soluble Chloride Ion Content in Mixing Water
<u>NDOT T 291</u>	Determination of Water-Soluble Chloride Ion Content in Soil
<u>NDOT T 504</u>	Determination of Clay Lumps, Shale, and Soft Particles in Coarse Aggregate and of Clay Lumps in Fine Aggregate and Sand Gravel Aggregate
<u>NDOT T 520</u>	Determination of the Percent of Imperfect Glass Beads

NDOT PNS
METHOD A

Percent Calcium Chloride

NDOT PNS
METHOD A

Percent Magnesium Chloride

INDEX OF APPLICABLE FIELD TEST METHODS

NOTE:

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

Only NDOT Field Test Methods are included in this Manual.

AASHTO T 11	Material Finer than \pm 200 sieve in Aggregate by Washing
AASHTO T 40	Sampling Bituminous Materials – Attachment 1
AASHTO T 168	Sampling Bituminous Paving Mixtures
AASHTO T 195	Determining Degree of Particle Coating of Bituminous Mixtures
AASHTO T 245	Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus
AASHTO T 248	Reducing Field Samples of Aggregate to Testing Size
AASHTO T 255	Total Moisture Content of Aggregate by Drying
AASHTO T 265	Laboratory Determination of Moisture content of Soils
AASHTO T 290	Theoretical Maximum Specific Gravity and

	Density of Bituminous Paving Mixtures
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
ASTM C 31	Making and Curing Concrete Test Specimens in the Field
ASTM C 138	Weight per Cubic Foot, Yield, and Air content of Concrete
ASTM C 143/ C 143M	Slump of Portland Cement Concrete
ASTM C 172	Sampling of Fresh Concrete
ASTM C 187	Test Method for Normal Consistency of Hydraulic Cement (False Set of Portland Cement)
ASTM C 231	Air content of Freshly Mixed Concrete by the Pressure Method
ASTM D 5329	Test Methods for Sealants and Fillers, Hot-Applied, For Joints and Cracks in Asphaltic and Portland Cement Concrete Pavements
ASTM D 5821	Determining the percentage of Fractured Particles in Coarse Aggregate

<u>NDOT C 1074</u>	Standard Practice for Estimating Concrete Strength by the Maturity Method
<u>NDOT S 01</u>	Method of Sampling Portland and Intergrround/Blended Cements
<u>NDOT T 2</u>	Sampling Aggregates
<u>NDOT T 27</u>	Sieve Analysis of Fine and Coarse Aggregates
<u>NDOT T 205</u>	Density of Soil In-Place by the Rubber Balloon Method
<u>NDOT T 238</u>	Standard Test Methods for In-Place Moisture Density of Soils by Nuclear Methods
<u>NDOT T 504</u>	Determination of Clay Lumps, Shale, and Soft Particles in Coarse Aggregate and of Clay Lumps in Fine Aggregate and Sand Gravel Aggregate
<u>NDOT T 505</u>	Moisture-Density Relations of Soils Using the One-Point Method
<u>NDOT T 506</u>	Determination of the Free Moisture Content of Aggregate
<u>NDOT T 587</u>	Density of Bituminous Concrete In-Place by Nuclear Methods
<u>NDOT T 2835</u>	Deflection Measurement of Soils Using a Lightweight Deflectometer (LWD)