

**Table of Contents**  
**Laboratory Testing Methods**

<b>1000</b>	<b>Standard Practices</b> (Ver. Sep 23, 2014)
1001	Receiving and Identifying Samples (Ver. Mar 1, 2018)
1002	Reducing Aggregate Field Samples to Testing Size (Ver. Oct 1, 2002)
1003	Lab – Field Tolerance Procedure – for Bituminous, Concrete, and Grading and Base (Ver. Apr 17, 2019)
<b>1200</b>	<b>Aggregate and Sand</b>
1201	Sample Preparation (Ver. Apr 16, 2010)
1202	Coarse Sieve Analysis (Ver. Jan 6, 2010)
1203	Fine Sieve Tests (Ver. Sep 24, 2015)
1204	Specific Gravity and Absorption (+4) (Ver. Jan 10, 2002)
1205	Specific Gravity and Absorption (-4) (Ver. Oct 1, 2002)
1206	Uncompacted Void Content of Fine Aggregate (FAA) (Ver. Apr 16, 2010)
1207	Lightweight Pieces In Aggregates (Ver. Jan 3, 2005)
1208	Flat and/or Elongated Particles in Coarse Aggregate (Ver. Mar 17, 2006)
1209	Lithological Count (Ver. Oct 11, 2012)
1210	Los Angeles Rattler (Ver. Jan 3, 2005)
1211	Unit Weight Determination (Ver. Jan 3, 2005)
1212	Organic Impurities in Sand for Concrete (Ver. Jan 3, 2005)
1213	Structural Strength of Sand (Ver. Jan 3, 2005)
1214	Percent Crushed Particles (Ver. Apr 3, 2017)
1215	Plastic Fines in Graded Aggregate (Sand Equiv Test) (Ver. Apr 17, 2000)
1216	Resistance of Abrasion of Coarse Aggregate (Micro-Deval) (Ver. Oct 1, 2002)
1217	Resistance of Abrasion of Fine Aggregate (Micro-Deval) (Ver. Apr 17, 2000)

- 
- 1218 Scratch Hardness of Coarse Aggregate Particles (Soft Rock) (Ver. Oct 11, 2012)
- 1219 Magnesium Sulfate (Soundness) (Ver. Apr 17, 2007)
- 1221 Acid Insoluble Residue (Ver. Apr 17, 2000)
- 1222 Alkali – Silica Reactivity (Ver. Apr 17, 2007)
- 1223 Flakiness Index (New Jan 3, 2005)
- 1224 Procedure for Determining the Amount of Bituminous, Concrete, Masonry Block, Glass, Brick and other Objectionable Material in a Recycled Aggregate (New Apr 3, 2017)
- 1300 Soil**
- 1301 Preparation of Samples for Testing (Ver. Apr 17, 2000)
- 1302 Particle Size Analysis (Ver. Aug 17, 2001)
- 1303 Liquid Limit Determination (Ver. Apr 17, 1995)
- 1304 Plastic Limit Determination (Ver. Apr 17, 1995)
- 1305 Moisture - Density Relationship (Soil & Granular) (Ver. Oct 1, 2002)
- 1307 R-Value and Expansion Pressure of Compacted Soils (Ver. Apr 17, 1995)
- 1308 Unconfined Compression (Ver. Apr 17, 1995)
- 1309 Direct Shear (Ver. Apr 17, 1995)
- 1310 Consolidation (Ver. Apr 17, 1995)
- 1311 Triaxial Compression (Ver. Apr 17, 2000)
- 1312 Field Classification of Soils (Ver. Apr 17, 2000)
- 1313 Soil Fertility (Ver. Apr 17, 1995)
- 1314 Specific Gravity of Soils (Ver. Apr 17, 1995)
- 1400 Cement, Concrete Products and Curing Materials**
- 1401 Cement (Ver. Apr 17, 2000)
- 1402 Concrete Brick (Ver. Apr 17, 2000)
- 1403 Concrete Curing Compound (Ver. Apr 17, 2000)

---

1404	Concrete Curing Materials (Ver. Apr 17, 2000)
1405	Concrete Masonry Units for Manholes and Catch Basins (Ver. Apr 17, 2000)
1406	Concrete Building Blocks (Ver. Apr 17, 2000)
1407	Concrete Cylinders (Ver. Jan 19, 2021)
1408	Culvert and Miscellaneous Cores (Ver. Apr 17, 1995)
1409	Concrete Drain Tile (Ver. Apr 17, 1995)
1410	Cores from Pavement (Ver. Apr 17, 1995)
1411	Concrete Pavement Beams (Ver. Apr 17, 1995)
1412	Linear Traverse (Ver. Apr 17, 1995)
1413	Fly Ash (Ver. Apr 17, 1995)
<b>1500</b>	<b>Metallic Materials</b>
1501	Reinforcement Bars (Ver. Apr 17, 1995)
1502	Wire Mesh (Ver. Apr 17, 1995)
1503	Gray Iron Castings (Ver. Apr 17, 1995)
1505	Cutting Edges (Ver. Apr 17, 1995)
1506	Fasteners (Ver. Apr 17, 1995)
1507	Steel Posts (Ver. Apr 17, 1995)
1508	Guard Rail Fittings (Ver. Apr 17, 1995)
1509	Chain Link Fence Fabric (Ver. Apr 17, 1995)
1510	Plow Bolts (Ver. Apr 17, 1995)
1511	Prestressing Strand (Ver. Apr 17, 2000)
1512	Plate Beam Guardrail (Ver. Apr 17, 2000)
1513	Sign Sheeting (Ver. Apr 17, 2000)
1514	Steel Cable & Fittings (Ver. Apr 17, 2000)

**1600 Joint Materials & Bearing Pads**

- 1601 Preformed Joint Filler (Bituminous Type) (Ver. Apr 17, 1995)
- 1602 Preformed Joint Filler (Bituminous, Fiber & Cork) (Ver. Apr 17, 1995)
- 1603 Elastomeric Compression Seals (Ver. Apr 17, 1995)
- 1604 Elastomeric Bearing Pads (Ver. Apr 17, 1995)
- 1605 Asphalt Plank (Ver. Apr 17, 1995)
- 1606 Silicone Rubber Joint Filler (Ver. Apr 17, 1995)
- 1607 Elastomeric Compression Joint Seal – Compression/Deflection Test (Ver. Mar 7, 2011)
- 1608 Cement Mortar Blocks for Bond Test (Ver. Mar 7, 2011)
- 1609 Asphalt Mix Blocks for Bond Test (Ver. Mar 7, 2011)

**1700 Miscellaneous Materials**

- 1701 Electrical Cable (Ver. Sep 24, 2015)
- 1702 Geotextiles (Ver. Apr 17, 1995)
- 1703 Clay Pipe & Drain Tile (Ver. Apr 17, 1995)
- 1704 Polyethylene Tubing (Ver. Apr 17, 1995)
- 1705 Pavement Marking Tapes (Ver. Apr 17, 1995)
- 1706 Glass Beads – Laboratory Retroreflectivity (Ver. Mar 7, 2011)
- 1707 Glass Beads – Percent Rounds (Ver. Mar 7, 2011)

**1800 Bituminous Mix Design**

- 1801 General (Ver. Apr 16, 2010)
- 1804 Trial Mix Preparation (Ver. Oct 1, 2002)
- 1805 Resistance to Plastic Flow (Marshall Method) (Ver. Jan 10, 2002)
- 1806 Bulk Specific Gravity (Marshall or Gyratory Method) (Ver. Jan 3, 2005)

---

1807	Maximum Specific Gravity (Rice Voids) (Ver. Apr 3, 2017)
1808	Percent Air Voids (Ver. Apr 17, 2000)
1809	Bituminous Mixtures - Voids Determination (Ver. Apr 16, 2010)
1810	Bulk Specific Gravity – Cores (Ver. Apr 3, 2017)
1811	Bulk Specific Gravity (Paraffin or Parafilm) (Ver. Apr 17, 2000)
1812	Bituminous Mixture Samples (Trial Mix Verification) (Ver. Jan 10, 2002)
1813	Effect of Moisture on Asphalt Paving Mixtures (Lottman) (Ver. Jan 1, 2004)
1815	Determination of RAP Aggregate Bulk Specific Gravity (Ver. Apr 17, 2007)
1816	Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using an Automatic Vacuum Sealing Method – (Corelok System) Modified (Ver. Apr 16, 2010)
1820	Density of HMA Specimens By Means of the Gyratory Compactor (Ver. Jan 10, 2002)
1851	Asphalt Content Determination of Bituminous Mixtures (Colorado) (Ver. Apr 17, 2000)
1852	Asphalt Content Determination of Bituminous Mixtures (Centrifuge) (Ver. Sep 24, 2015)
1853	Asphalt Content Determination of Bituminous Mixtures (Ignition) (Ver. Apr 17, 2007)
1854	Adjusted Asphalt Film Thickness (AFT) (Ver. Apr 3, 2017)
1855	Moisture Content of Hot Mix Asphalt by Oven Method (Ver. Apr 16, 2010)
<b>2000</b>	<b>Calibration of Field Testing Equipment</b>
2001	Calibration of Field Electronic Balances (Ver. Mar 1, 2018)
2002	Ohaus Triple Beam Balance (Ver. Apr 17, 1995)
2003	Field Platform Balance (Ver. Apr 17, 1995)
2004	Field Proctor Hammer & Molds (Ver. Apr 17, 1995)
2005	Marshall Compaction Hammer (Ver. Apr 17, 2000)
2006	Mn/DOT Concrete Air Testing Unit (Ver. Apr 17, 1995)
2007	Watts Pressure Meters (Ver. Apr 17, 1995)
2008	Field Box Sieves (Ver. Dec 9, 2016)

2009	Round Sieves (Ver. Jan 1, 2016)
2100	Dial Thermometers (Ver. Apr 17, 1995)
2101	Calibration Calcium Carbide Gas Pressure (Speedy) Moisture Tester (Ver. May 17,2017)
<b>2100</b>	<b>Rock Salt and Alternative Winter Chemicals</b>
2101	Rock Salt Moisture – Microwave (Ver. Mar 7, 2011)
2102	Rock Salt Moisture – Moisture Balance (Ver. Mar 7, 2011)
2103	Rock Salt Moisture – Oven (Ver. Mar 7, 2011)
2104	Rock Salt Gradation (Ver. Mar 23, 2011)
2105	Rock Salt Composition (Ver. Mar 7, 2011)
2106	Treated Salt – Liquid Treating Agent Content (Ver. Mar 7, 2011)
2107	Alternative Chemicals Sampling (Ver. Mar 7, 2011)
2108	Alternative Chemicals Specific Gravity (Ver. Mar 7, 2011)
2109	Alternative Chemicals Magnesium Chloride Content (Ver. Mar 7, 2011)
2110	Alternative Chemicals Calcium Chloride Content (Ver. Mar 7, 2011)
2111	Alternative Chemicals Solids Content (Ver. Mar 7, 2011)

**Note:** Sections 3000, 4000 and 5000 are reserved for future use.