



The Science You Build On.

### Calibration Services

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Category	Equipment	Parameter	Specification Reference
Concrete	Concrete Air Meter	Type B	ASTM C231
Concrete		Volumetric	ASTM C173
General	Electronic Balance	Field Scales	USP Code
		General Purpose	USP Code
		General Purpose	USP Code
		Analytical	USP Code
Concrete		Bearing Block Planeness	ASTM C39
General	Calipers	Linearity, ID jaws, depth and step	Manufacturers Specifications
Concrete	Capping Plate	Planeness	ASTM C617
	Capping Jig	Squareness	
Soil	CBR Equipment	Spacer Diameter and Height	ASTM D1883
		Annular and Slotted Weights	
Asphalt	Compactor Gyrotory	Angle	AASHTO T312
		Height	
		Rate	
		Load	
Asphalt/Soil	Compactor Marshall or Proctor	Drop	ASTM D6926/D698/D1557
		Weights	
		Hammer diameter	
Aggregate	Conical Mold and Tamper	Weight	ASTM C128
		Diameters	
		Height	
Concrete		Length	ASTM C174
Concrete	Core Length Measuring Frame	Temperature	ASTM C511
	Curing Room/Cabinet	Humidity	
		Temperature	ASTM C511
Concrete	Curing Tank	Length	Manufacturers Specifications
General	Dial Indicator	Length	Manufacturers Specifications
General	Digital Indicator	Weight	MnDOT 5-692.255
Soil	Dynamic Cone Penetrometer	Length	
		Angle	
		Diameter	
Soil	Expansion Frames	Deflection	ASTM D2844
Aggregate	FAA Cylinder	Volume	ASTM C1252
Aggregate	Flakiness Gauge	Openings	BS-812 or MnDOT 1223
Aggregate	Flat & Elongated Jig	Opening ratio	ASTM D4791
Concrete	Flexural Strength Fixture	Length	ASTM C78
		Planeness	
General	Humidity Indicators and Recorders	Humidity	Manufacturers Specifications
Soil	Hydrometer	Dimensions	ASTM E100
Soil	Kneading Compactor	Force	ASTM D2844
		Rate calculations	
Aggregate	LA Abrasion	Diameter	ASTM C131/C535
		Rate calcs	
Soil	Liquid Limit Device and Groover	Cup radius	ASTM D4318
		Dimensions	
		Rate calcs	
General	Load Frame Concrete	Indicated load	ASTM E4
		Indicated load	ASTM E4
Soil	Load Frame Consolidation	Applied load	ASTM E4
Soil	Load Frame Direct Shear	Applied load	ASTM D3080
Asphalt	Load Frame Marshall Stability	Indicated load	ASTM E4
Soil	Load Frame R-Value	Applied load	ASTM D2844
Soil	Load Frame Triaxial	Applied load	ASTM D2850/D4767
Asphalt	Marshall Breaking Head	Radius	ASTM D6927
Concrete	Maturity Meter	Temperature	ASTM C918
Aggregate	Mill Abrasion	Volume	Union Pacific
Aggregate	Modified Mill Abrasion	Rate calcs	Union Pacific
		Dimensions	
Concrete	Molds Beam	Dimensions	ASTM C470
Soil	Molds CBR	Dimensions	ASTM D1883
		Volume	
Concrete	Molds Cylinder	Dimensions	ASTM C470
		Watertightness	
Asphalt	Molds Gyrotory	Diameter	AASHTO T312
Asphalt	Molds Marshall	Dimensions	ASTM D6926
Concrete	Molds Mortar Cube	Dimensions	ASTM C109
Soil	Molds Proctor	Dimensions	ASTM D698/D1557
		Volume	
Soil	Molds R-Value	Diameter	ASTM D2844
		Height	
Soil	Molds-Soil Cement	Dimensions	ASTM D698
Concrete	Molds Steel Cylinder	Dimensions	ASTM C470
Concrete	Neoprene Retaining Cups	Planeness	ASTM C1231
		Dimensions	
Soil	Nuclear Density Gauge Validation	1 point density validation each depth	ASTM D6937
		1 point moisture validation	
Aggregate	Oven Evaporation	Evaporation Rate	ASTM C88
General	Oven Temperature	Temperature	ASTM D2216 and other ASTM's

General	Pressure	Displayed pressure Displayed pressure	Various ASTM Test Specifications
Soil	Proctor Straightedge	Planeness Beveled thickness	ASTM D698/D1557
Soil	Proving Ring	Indicated load	ASTM D2166
General	Proving Rings	Indicated load	ASTM D6927
Aggregate	Pycnometer	Filled weight	ASTM C128
Asphalt	Pycnometer	Filled weight	
Soil	Pycnometer	Filled Weight	ASTM D954
General	Ruler	Length	NIST SOP 10
Soil	R-Value Equipment	Dimensions Pressure	ASTM D2844
Soil	Sand Cone Bulk Density	Loose Density	ASTM D1556
Soil	Sand Cone & Plate	Weight to fill	ASTM D1556
Aggregate	Sand Equivalent	Plunger weight Misc dimensions	ASTM D2419
Concrete	Schmidt Hammer	Standard rebound	ASTM C805
Aggregate	Scratch Hardness	Weight of assembly	ASTM C851
General	Sieves-coarse	Spot Check Openings	MnDOT 2008/2009
General	Sieves-fine	Visual condition	MnDOT 2009
Concrete	Slump Cone and Rod	Diameters Heights/Lengths	ASTM C143
General	Splitter	Visual Condition	ASTM C702
General	Straightedges	Planeness	ASTM C39
General	Stressing Ram	Indcated force	ASTM E4
General	Temperature Indicators and Recorders	Temperature	ASTM C511
General	Infrared thermometers	Temperature	Ice bath target Blackbody target
General	Timer	Digital/Mechanical	NIST Pub 960-12 Direct Comparison
Agg/Conc	Unit Weight Bucket	Volume calcs Planeness	ASTM C29/C138
Asphalt/Soil	Vacuum System	Absolute pressure	ASTM D2041/D854
Soil	Vibration Amplitude	Frequency	ASTM D4253
General	Weights Class F Validation	Weights - 25 lb	NIST SOP-7
General	Weights Class F Validation	Weights - 50 lb	NIST SOP-7