

CHEMICAL UNIT

Colorado Procedures – Laboratory:

Determining the Sulfate Ion Content in Water or Water-Soluble Sulfate
Ion Content in SoilCP-L 2103

Standard Test Procedures: AASHTO / ASTM

	<u>AASHTO</u>	<u>ASTM</u>
Air Content of Hydraulic Cement Mortar		C 185
Autoclave Expansion of Portland Cement.....		C 151
Chemical Analysis of Limestone, Quicklime, and Hydrated Lime		C 25
Chemical Analysis of Hydraulic Cement		C 114
Compressive Strength of Hydraulic Cement Mortars.....		C 109
Density of Hydraulic Cement.....		C 188
Determination of Organic Content in Soils by Loss on Ignition	T 267	
Determining Water-Soluble Chloride Ion Content in Soils	T 291	
Early Stiffening of Hydraulic Cement (Paste Method)		C 451
Expansion of Hydraulic Cement Mortar Bars Stored in Water.....		C 1038
Fineness of Hydraulic Cement by Air Permeability Apparatus		C 204
Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve		C 430
Normal Consistency of Hydraulic Cement.....		C 187
pH of Peat Materials		D 2976
pH of Soils.....		D 4972
Sampling and Testing Fly Ash or Natural Pozzolans for Use In Portland Cement Concrete.....		C 311
Sampling and Testing for Chloride Ion in Concrete and Concrete Raw Materials	T 260	
Time of Setting of Hydraulic-Cement Paste by Gillmore Needles.....		C 266
Time of Setting of Hydraulic Cement by Vicat Needle		C 191
Quality of Water to Be Used in Concrete	T 26	
Rapid Identification of Alkali-Silica Reaction Products in Concrete.....	T 299	

	<u>AASHTO</u>	<u>ASTM</u>
Length Change of Hardened Hydraulic Cement Mortar and Concrete.....	T 160.....	C 157
Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars Due to Alkali-Silica Reaction.....	T 303.....	C 1260
Estimating the Cracking Tendency of Concrete.....	T 334	