

Commentaries on the Consolidation-Swell Test

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ABSTRACT

The consolidation-swell test is commonly used for measuring expansion potential and predicting heave for expansive soils in the Front Range area of Colorado, USA. In performing the test and analyzing the results, it is important to consider the specific nature of the dense highly consolidated claystones and clayshales of this area. Such materials have also been observed to exist throughout the Western United States and other parts of the world. This paper presents a discussion of many factors that are considered in the ASTM Standard Test Method but which are inadequately addressed for these materials and are not always observed by commercial testing laboratories.

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