

(PREVIEW)

Indian Standard

ARGILLACEOUS SWELLING ROCKS — METHODS FOR LABORATORY TESTING

PART 1 METHOD FOR SAMPLING, STORAGE AND PREPARATION OF TEST SPECIMENS

1 SCOPE

1.1 This standard covers the techniques for sampling, preparing and storing specimen for laboratory swelling test for argillaceous rocks.

PART 2 METHOD FOR DETERMINING MAXIMUM AXIAL SWELLING STRESS

1 SCOPE

1.1 This standard covers the method of test intended to measure the axial stress necessary to constrain an undisturbed radially confined rock specimen at constant thickness when immersed in water. This does not cover anhydrite swell testing which requires different treatment.

PART 3 METHOD FOR DETERMINING AXIAL AND RADIAL FREE SWELLING STRAIN

1 SCOPE

1.1 This standard covers the method of test to measure the axial and radial free swelling strain developed when an unconfined, undisturbed rock specimen is immersed in water

PART 4 METHOD FOR DETERMINING AXIAL SWELLING STRESS AS A FUNCTION OF AXIAL SWELLING STRAIN

1 SCOPE

1.1 This standard describes the method of test intended to measure the axial swelling strain necessary to reduce the axial swelling stress of a radially constrained rock specimen immersed in water from its maximum value to a value which is acceptable in the particular application. It is intended for application to cases where analogous boundary conditions prevail.