
Effect of Compaction on the Pore Fluid Chemistry of Montmorillonite

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Abstract: An apparatus for consolidating fine grained materials under controlled conditions of total stress, pore fluid pressure and temperature is described and the variation in chemistry of pore fluid expelled during compaction from a montmorillonitic material at 40° C is reported. The decrease in concentration of dissolved salts in the pore fluid is related exponentially to the effective axial pressure.

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