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## Experimental study on the construction of a permeability model of bentonite

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The permeability coefficient of compacted bentonite is very small compared to the permeability coefficient of common soil materials. In addition, the permeability coefficient differs greatly depending on the quality of the test water, and the permeability coefficient cannot be evaluated only by the difference in viscosity. The purpose of this study is to elucidate these factors, and finally to understand the infiltration and penetration behavior of water in bentonite, and then incorporate it into a numerical analysis model. In this study, some experiments were conducted as a preliminary step. This is a summary of the permeability behavior of water in bentonite, which was clarified from the results of the permeability test and XRD analysis.

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