

Transport properties of deformable porous media

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Measurements of permeability is performed to clarify effect of deformability of solid phase in analogy to the partial molten state in the upper mantle.

The permeability as a function of liquid fraction has systematically higher values than that for the rigid sphere at low liquid fraction regime.

We also report abnormal phenomena such as hysteresis and existence of threshold peculiar to the deformable system.