

THE SANDWICH SEALING SYSTEM: SCALE TRANSITION FROM LABORATORY TO A LARGE-SCALE IN-SITU EXPERIMENT AT THE MONT TERRI ROCK LABORATORY

8TH INTERNATIONAL CONFERENCE

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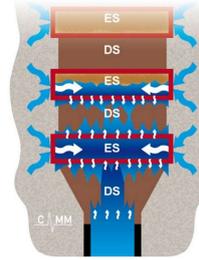
ON CLAYS IN NATURAL AND ENGINEERED BARRIERS FOR RADIOACTIVE WASTE CONFINEMENT

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Objectives Sandwich Experiment (see also poster 73)

- 1) Feasibility of installation
 - 2) Investigation of the saturation process
 - 3) Qualification of measurement and monitoring techniques (instrumentation)
 - 4) Assessment of sealing effectiveness (later stage of the experiment)
 - 5) Evaluation and validation, risk management
- 2nd experimental shaft



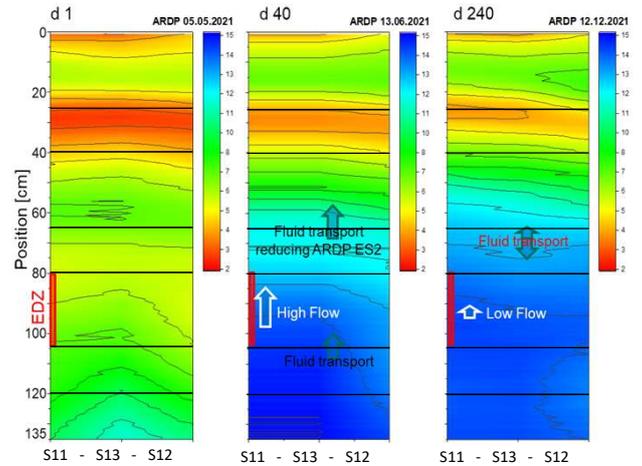
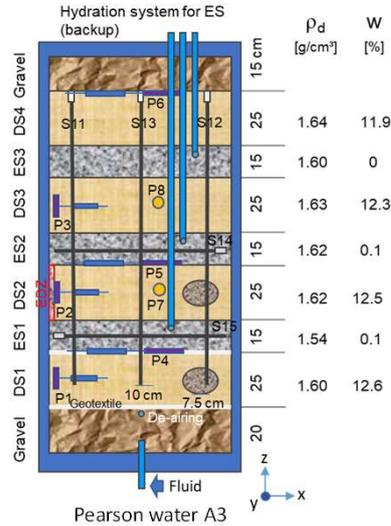
Objectives Laboratory experiments

- 1) Material development for ES and DS
- 2) Installation tests
- 3) Test of back-up hydration system
- 4) Investigation of saturation kinetics
- 5) Swelling pressure of DS materials
- 6) Cation exchange and ion transport in DS

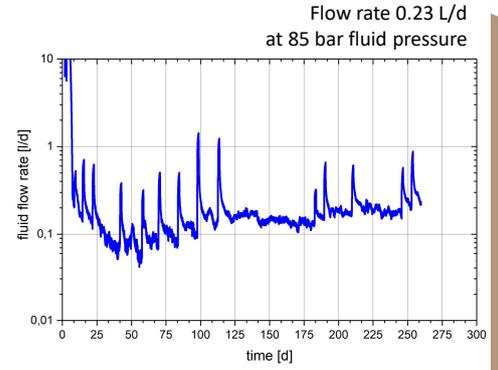
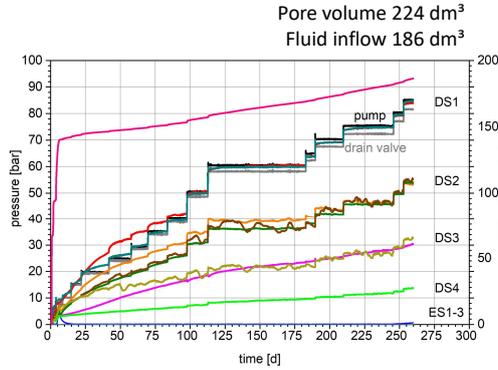
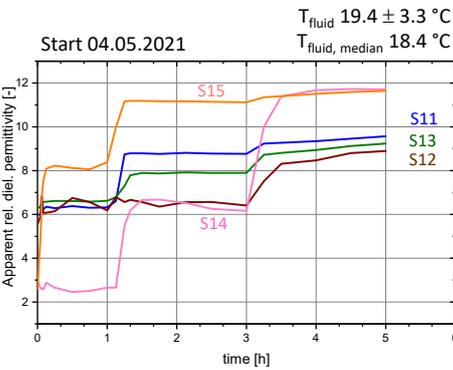
Semitechnical scale (e.g. HTV-8)

Material DS (see also poster 454)

Ca-bentonite (Secursol® MHP1 70/30)

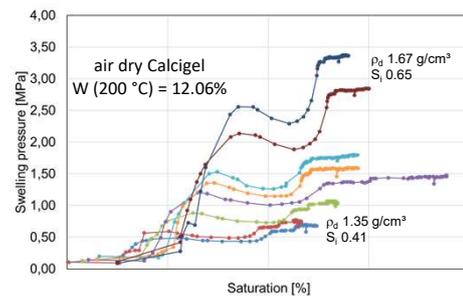
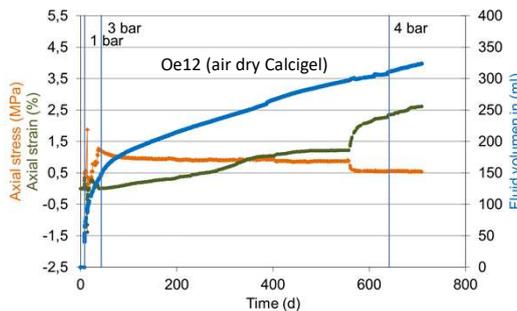
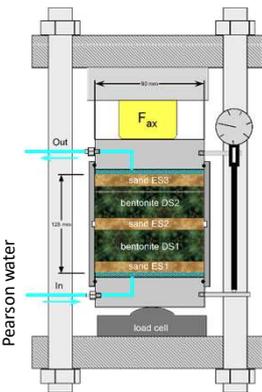


Sequence of actions and events/results HTV-8



MiniSandwich (see also poster 498)

Saturation-swelling pressure-relation for two German Ca-bentonites (Calcigel and Secursol®)



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