

Thermodynamic Characterization of CO₂ and Pump Simulation

The ZMS works on the research for the safe storage of CO₂ in subsea deposits. As part of the research we look into a novel barrier test unit which is supposed to operate with CO₂.

Objectives and Tasks:

- Characterisation of CO₂ and its states with a focus on the liquid and gaseous phases
- Thermodynamic analysis of CO₂
- Setting up a simulation in a suitable simulation programme
- Simulation of a pump system based on a piston pump and carrying out various tests in the simulation

Ansprechpartner (Erstbetreuer): Prof. Dr. rer. nat. Markus Glaser

E-Mail: markus.glaser@hs-aalen.de

Tel.: +49 (0) 7361 576-3308

