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## **Analysis of thermal properties in the context of deep geological repository of radioactive waste**

### **Abstract**

Petrophysical data of the Rock and Rock Mass properties will serve as a required information for more detailed geological investigations at the test site and are essential for the forthcoming three-dimensional, descriptive modelling and disposal heat-generation waste.

In the case of the development of radioactive waste repository of heat-generating radioactive waste changes of petrostructural and petrophysical significance become important the properties of rocks due to thermal effects of rocks, which leads to their dissolution and changes in transport characteristics.

This study includes:

Evaluate the thermal properties by means of the empirical dependencies;

Observe the possibility of using petrophysical data to evaluate the conditions for the formation of crystalline rocks.

It is very likely that some of the assumptions and conclusions of this research will be improved or changed based on the future development of the creation of a site-model of the repository of radioactive waste, thanks to its potential for comparison, combination and integration of different disciplines (geology, petrochemistry, tectonic etc).