

## Influence of grain size on electric resistivity of oil contaminated sand

J. Peterková  
Gypstrend s.r.o.<sup>1</sup>

**Abstract:** Oil contamination of surface part of rock environment may be identified also on the basis of electric resistivity changes measured by a suitable geophysical method. During laboratory measurements, results of which were presented in *Peterková (1999)*, the question of influence of grain size on electric resistivity of oil contaminated environment has appeared. From further measurements, presented in this paper, it resulted that with increasing grain dimensions conductivity of environment decreases, but indispensable impact on environment conductivity has initial humidity, which together with grain size influences conductivity of oil contaminated environment (*Karous, 1989*). Conductivity of oil contaminated environment depends on the ratio of substitution of particular environment components.

**Key words:** electrical resistivity of oil contaminated soils, laboratory measurements of electric resistivity

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<sup>1</sup>Kobeřice 747 27, Czech Republic, e-mail: gypstrend@opava.cz