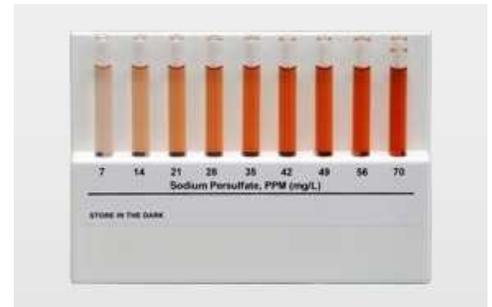




## Persulfate Soil Oxidant Demand Test Kit – PSOD-5

The Oxidation Systems persulfate soil oxidant demand (SOD) test kit directly measures the SOD for sodium persulfate. Simply add site soil and water to the reaction tubes, and the results are available by measuring the residual persulfate concentration. Each reaction tube includes a pre-weighed amount of sodium persulfate, so there is no need to handle oxidants and other reagents.



**Simple to interpret color changes provide results within 24 hours**

In-situ chemical oxidation using sodium persulfate is an established remediation technology for the treatment of chlorinated solvents, petroleum hydrocarbons, and a wide variety of volatile organic compounds. The soil oxidant demand, also known as natural oxidant demand, has been determined by USEPA to be the most important criteria in the overall success of an ISCO remedy. Oxidation Systems designed this simple to use and very effective SOD test to provide a screening level measurement of this important parameter.

## Description

The Oxidation Systems Persulfate Soil Oxidant Demand (PSOD) Test Kit (PSOD-5) includes everything that is necessary to conduct five SOD tests for sodium persulfate. The PSOD-5 includes the following:

- 5 reaction tubes per test
- 5 clear 9 ml “viewing tubes”
- Test tube rack
- Oxidant/reagents
- Persulfate concentration test kit
- Manual, calculation worksheet, MSDS

The PSOD test evaluates the persulfate demand over time – measurements are obtained after 48 hours. This procedure provides an estimate of how long persulfate will persist in the subsurface as well as the potential distance it can migrate.

SOD testing results are reported in units of g/kg (g of persulfate consumed per kg of soil). Although this test is qualitative in nature, the results can be used alone or in combination with site characterization data to estimate the quantity of potassium permanganate required to remediate a given contaminated aquifer. This simple and inexpensive persulfate SOD test is a good screening level tool that can provide a “go / no-go” decision to aid remediation designers and stake-holders who are considering ISCO for a particular site.