



# TETRA Designed Spacer Pill I

## TDSP DISPLACEMENT SYSTEM

### Overview

TETRA Designed Spacer Pill I (TDSP I) is a specially formulated fluid incorporating a blend of polymers and a variety of weighting agents depending on circulating temperature and density requirements. Thermal stability can be enhanced up to 450°F.

This is the first stage of the TETRA Technologies TDSP multi-stage weighted spacer system designed to remove drilling mud from the wellbore prior to high density brine emplacement. The rheological properties enhance displacement efficiency when pumped in plug flow. The system is designed to be compatible with both water and oil based muds. When used in conjunction with TDSP II spacer and TDSP III spacer, the completion fluid is less contaminated and diluted and the drilling fluid retains greater value. TDSP I spacer can also be used with minor modifications as a spacer when displacing brines out of the wellbore with mud.

### Features and Benefits

- Preformulated to save mixing time at rig site
- Eliminates stock of materials/chemical at rig site
- Saves rig time
- Eliminates human error since mixing is performed at plant by knowledgeable personnel instead of rig site
- Custom formulated for optimal performance

### Applicable Information

TDSP I spacer is specially blended at a TETRA service facility thereby eliminating rig-site mixing. TDSP I spacer volumes and density requirements are directly related to wellbore geometry, temperature, pressure, mud rheology and mud density.

### Safety and Handling

Avoid skin and eye contact, inhalation or ingestion. For skin contact, wash with soap and large quantities of water. For eye contact, flush with large quantities of water. Use properly designed respirator if adequate ventilation is not available. Refer to the Safety Data Sheet for specific details.

Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. Further, nothing contained herein shall be taken as a recommendation to manufacture or use any of the herein described materials or processes in violation of existing or future patents.