# PERFFLOW DIF

## Control leak-off and minimize fluid loss into formation

### Applications

- Reservoir drilling
- Fluid loss control

### Features and benefits

- Uses non-damaging polymers
  - Exhibits excellent drilling and completion fluid performance
- Bridges a wide range of pore throat diameters
  - Easily produces a filter cake without remediation
- May be customized for specific reservoir needs
  - Maximizes production and investment payout
- Available as a single-sack product
  - Reduces overall completion costs
- Temperature-stable to 300°F (149°C)
  - Works in most well temperatures
- Can be formulated to stabilize sensitive shales
  - Maintains well stability
- Designed with environmentally friendly components
  - Conforms to environmental standards worldwide

The Baker Hughes **PERFFLOW™ DIF water-based, drill-in fluid system** is engineered using monovalent and/or divalent brine with a specialized blend of non-damaging polymers and bridging particles that work together to develop a tough, thin, and pliable filter cake.

The PERFFLOW DIF fluid contains a premium mix of components to provide optimum bridging, reduced fluid loss, and an improved viscosity profile.

The fluid has excellent bridging characteristics across a wide range of permeabilities, up to 10 darcies. The dry components are stored in a single sack to aid in inventory management and mixing.

Although the PERFFLOW DIF system can be customized to match specific downhole conditions, the basic PERFFLOW DIF is engineered to deliver densities ranging from 9.1 to 17.8 lb/gal (1.09 to 2.13 sg) and maintain excellent rheological properties in bottom hole temperatures up to 300°F (149°C).

### Recommended treatment

The PERFFLOW DIF fluid begins as an easy-to-use single-sack, dry powder. One 55-lb (25-kg) sack will prepare 1.0 bbl (0.16 $m^3$) of finished fluid when added to 0.94 bbl (0.15 $m^3$) of brine.

### Environmental information

For information concerning environmental regulations applicable to this product, contact the Health, Safety, and Environmental department of Baker Hughes.

### Shipping

Transportation of the PERFFLOW DIF system is not restricted by either international or United States regulatory agencies.

### Safe handling recommendations

Use normal precautions for employee protection when handling chemical products. See Safety Data Sheet (SDS) prior to use.

### Packaging

PERFFLOW DIF is packaged in 55-lb (25-kg) multi-walled bags.

| Typical properties | |
|---|---|
| **Appearance** | White, free-flowing powder |
| **Specific gravity** | 2.71 |
| **pH (10% solution)** | 8.5 to 9.5 |