

# SUPER INSULGEL

## Provide flow assurance for produced fluids

### Applications

- Water- or brine-based thermal insulation fluids

### Features and benefits

- Significantly reduces conductive and convective heat loss
  - Ensures flow of produced fluids
  - Minimizes paraffin and asphaltene deposition
  - Reduces gas hydrate formation
  - Aids in preventing Annular Pressure Buildup (APB)
- Minimizes or eliminates the need for Vacuum Insulated Tubing (VIT)
  - Cost effective
- Solids-free, viscosified fluid with shear thinning properties
  - Reduces fluid conductivity
  - Easy placement
  - Can be easily removed from well after years of use and reconditioned
- Wide density range
  - Can replace conventional packer fluids without compromising well control

The **SUPER INSULGEL™ insulating packer fluid** from Baker Hughes is a water- or brine-based packer fluid that provides thermal insulation in wells where heat loss to the surrounding environment is a major concern.

The SUPER INSULGEL fluid is spotted in the annulus to reduce the loss of heat from the production string to outer annuli, thus maximizing the arrival temperature of the produced fluids. By controlling heat loss, it ensures the flow of the produced fluids, minimizes the deposition of paraffin and asphaltenes, reduces annular pressure buildup, and can prevent the formation of gas hydrates. SUPER INSULGEL fluid is an ideal packer fluid for applications where heat retention is important, such as with deepwater riser installations and permafrost applications that require tight control of heat loss.

The SUPER INSULGEL thermal insulation fluid is shear thinning and can be easily spotted in the annulus and removed after years of use. It is oil-free and compatible with a wide variety of brines and elastomers.

### Recommended treatment

Field concentrations for the SUPER INSULGEL insulating packer fluid will be determined by the Baker Hughes regional laboratories on a case-by-case basis.

### 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 SUPER INSULGEL insulating packer fluid is not restricted by international or USA regulatory agencies.

### Safe handling

#### recommendations

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

### Packaging

The SUPER INSULGEL insulating packer fluid is supplied to the rig via marine portable tanks.

#### Typical properties

<b>Appearance</b>	Pale yellow liquid
<b>Density range</b>	8.6 to 12.0 lb <sub>m</sub> /gal (1.03 to 1.44 sg)
<b>Temperature limit</b>	200°F (93.3°C)
<b>pH</b>	9.0 to 9.5