ABS 40

SYNTHETIC INVERT EMULSION

NEXT GENERATION

AES DRILLING FLUIDS

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DESCRIPTION

- Synthetic invert emulsion drilling fluid
- Base oil features improved environmental, health, and safety benefits compared to diesel

BENEFITS

- Invert emulsion drilling performance
- Controlled properties enhance fluid capabilities
- Enables drilling in some restricted areas and enhances overall environmental impact profile

APPLICATIONS

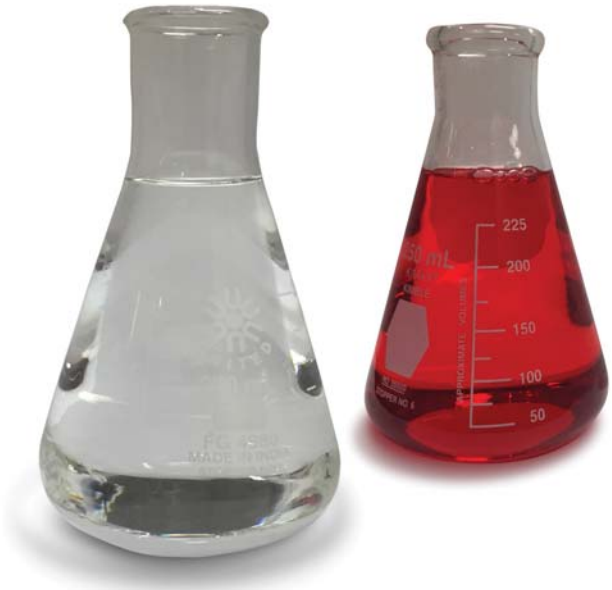
- Areas where invert emulsions are required but diesel is prohibited
- Operations near populated or sensitive areas where ABS 40 is approved for use

ABS 40†
Synthetic Invert Emulsion

Description

ABS 40 is a synthetic-based invert emulsion system using a base oil blend optimized for performance and environmentally sensitive properties, including zero (non-detect) BTEX and polycyclic aromatic hydrocarbons (PAH). ABS 40 provides the performance of an invert emulsion system where conventional oil-based systems are prohibited or undesirable.

ABS 40 BASE, the base oil component of the ABS 40 system, is a proprietary blend of linear paraffins, synthetic iso-alkanes, olefins, and aliphatic fluids. Its biodegradability and low toxicity make the ABS 40 system ideal for land applications where operators seek a more environmentally sensitive drilling fluid but require invert emulsion performance.



ABS 40 BASE (left) provides a diesel (right) alternative with consistent properties and a superior health, safety, and environmental profile

ABS 40 provides the superior performance sought when utilizing an invert emulsion fluid: inhibition, faster rates of penetration, lubricity, and simplicity while removing many harmful components found in diesel.

Diesel base fluids are characterized by combustion specifications and viscosity may vary significantly. ABS 40 is blended for consistent viscosity, offering improved rheological control for hole cleaning and pressure management. A higher aniline point presents greater compatibility with elastomers, reducing the risk of motor failures.

Applications

ABS 40 is ideal anywhere invert emulsion systems are desired and approved for use, but diesel is undesirable or prohibited. In areas where diesel is prohibited, ABS 40 may offer an acceptable alternative, although this must be confirmed with local regulatory agencies. When drilling on private land, ABS 40 offers a more sensitive option with minimal odor and reduced environmental hazards.

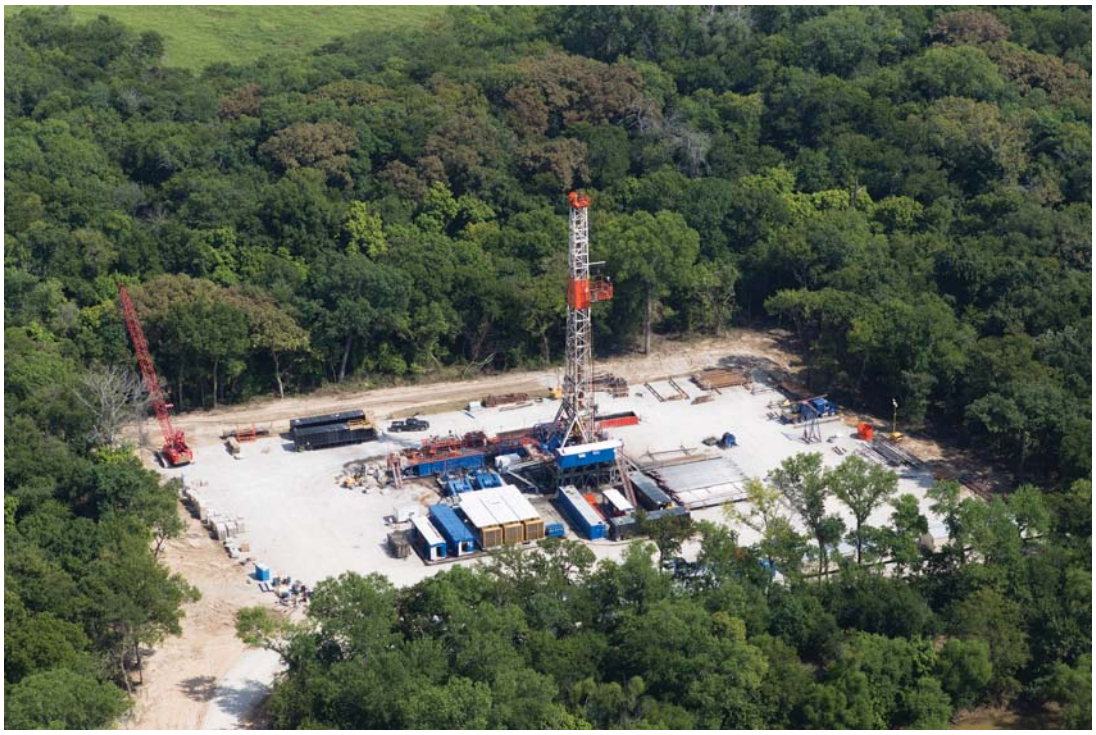
ABS 40 is available at densities ranging from 7.5 lbm/gal to 18.4 lbm/gal with conventional weight material. Standard ABS 40 systems exceed 250°F; however, using high temperature additives, ABS 40 is capable of drilling wells exceeding 400°F.

In extended reach well applications, ABS 40 features a controlled, lower viscosity to aid with turbulent flow, which is critical for hole-cleaning. An elevated aniline point aids to extend elastomer life and a higher flash point simplifies transportation requirements.

Optimized solids control equipment aids to limit base fluid consumption due to cuttings retention and reduces base fluid additions for dilution. Supplemental solids control equipment, including drying shakers or cuttings dryers may further extend fluid life, enhance waste reduction, and improve economics.

Performance

ABS 40 has been used in over 3,500 wells drilling offshore and on land with excellent performance in unconventional and conventional wells. Throughout its extensive history, ABS 40 has effectively drilled through a number of formations including shale, carbonates, marl, gumbo and salt.



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