Solutions For Drilling High-Temperature, High-Pressure wells

EMBARK™ Rheology Modifier

With deeper wells come higher temperatures and pressures that can take their toll on drilling equipment and desired fluid properties. Dow Oil & Gas can help customers address these challenges with the EMBARK™ Rheology Modifier for high-temperature, high-pressure wells. EMBARK Rheology Modifier is specifically designed to protect equipment and enhance drilling operations in higher temperature and higher pressure environments.

As part of the new EMBARK line for exploration from Dow Oil & Gas, this distinct rheology modifier exhibits excellent performance in fresh water, as well as in a variety of brines – including sodium bromide (NaBr), calcium chloride (CaCl₂), calcium bromide (CaBr₂) and zinc bromide (ZnBr₂).

Compared to xanthan gum, the primary rheology modifier used in the industry, EMBARK Rheology Modifier offers a higher elastic modulus over a much wider shear stress range, while exhibiting a much flatter rheology in some brines. Like other drilling, completion and workover products from Dow Oil & Gas, EMBARK Rheology Modifier can help safely improve the speed and economics of drilling operations.

As an advanced drilling fluid additive for specialized use in pay zones, EMBARK Rheology Modifier offers:

- Better rheology performance than common biopolymers
- A wide temperature range of performance
- Enhanced elastic behavior compared to xanthan and HEC
- Improved return permeability for more demanding completions
- Excellent suspension and improved sweep efficiency of cuttings, especially in horizontal wells

Discover EMBARK™

Let EMBARK Rheology Modifier help address your unique oilfield challenges by increasing oil and gas production and reducing operational costs. Cost-effective solutions from Dow Oil & Gas can also help minimize equipment damage, improve product flow and allow for a more efficient clean-up.
**Contact a Dow Oil & Gas technical representative in your region to find out how we can help you enhance your drilling operations.**

**Dow Oil & Gas and You: Together, We Have Good Chemistry**
Contact the Dow Oil & Gas technical representative in your region to find out how our family of drilling fluid additives can help you increase oil production by minimizing formation damage, increasing drilling rates and bit life, and lowering pump pressure by reducing horsepower requirements, all of which can boost your bottom line.

**A Note About Product Safety**
Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets (MSDS), should be consulted by customers and potential users prior to use.

**Contact a Dow Oil & Gas technical representative in your region to find out how we can help you enhance your drilling operations.**

**For more information, visit www.DowOilandGas.com.**

**Notice:** No freedom from any patent owned by Dow or others is to be inferred. 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 government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to “Dow” or the “Company” mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.