Effective deepwater flow assurance

The new Baker Hughes FATHOM™ deepwater subsea-certified chemicals are effective deepwater flow assurance treatments that help operators produce reliably in deepwater. All FATHOM chemicals undergo stringent design and testing and must meet exacting standards for performance, material and physical compatibility, as well as capillary and umbilical stability.

FATHOM certification helps confirm low- and high-temperature stability as well as high-pressure deliverability. It provides you with engineered answers for deepwater applications using either existing or custom solutions that are manufactured to subsea tolerances and compatible with your application materials.

Our certification process incorporates 16 different laboratory tests built on the standards recommended by the findings of the Blockage Avoidance in Subsea Injection and Control Systems (BASICS) Joint Industry Project (JIP)—and published in API specification 17A TR6 to confirm each chemical product is qualified for reliable subsea application.

This tough qualification process means that you can rely on our deepwater products to help enhance performance for mitigating flow assurance and asset integrity challenges in virtually any deepwater or ultradeepwater production environment.

Every FATHOM deepwater subsea-certified chemical is analyzed for compatibility with standard metals and soft goods materials.
to make sure there are no unexpected interactions during injection. Our chemicals are manufactured with an ultraclean process to meet both your requirements and the level of chemical purity required for umbilical injection.

In addition, Baker Hughes professionals undergo a demanding competency assessment before working offshore. Each member is trained to apply FATHOM certified chemicals properly and to recognize incompatibilities and other potential problems.

**Improved efficiency**

FATHOM deepwater subsea-certified chemicals are rigorously pretested for specific subsea applications to:
- Confirm continuous production
- Minimize risk
- Align BASICS JIP guidelines

These certified chemicals help minimize lost production by protecting against corrosion, scale, hydrate, paraffin, and asphaltene deposits. Specially designed, they help enhance umbilical stability and avoid problems caused by chemical reactions with umbilical materials.

Our custom-engineered chemical solutions help improve efficiency by delivering low-viscosity and high-pressure stability, reducing downtime, and increasing flow assurance.

**Custom deepwater applications**

By working with you to understand your operation’s specific needs, the Baker Hughes chemical services team can custom design and implement a tailored package for your operation. Options can include flow assurance assessment, design improvement, production optimization, and asset integrity for profit improvement.

This collaborative evaluation helps to avoid unnecessary delays and costly repairs and includes:
- Chemical systems design review
- Prediction and modeling services for:
  - Asphaltenes
  - Paraffin
  - Hydrates
  - Scale
  - Corrosion
  - Calcium naphthenate
- Laboratory and supply chain management
- Oilfield chemical training

Contact Baker Hughes to find out how FATHOM deepwater subsea-certified chemicals can reliably improve performance for you in virtually any offshore production environment.

www.bakerhughes.com/FATHOM

FATHOM chemicals help reduce the risk of blocked umbilicals for the correct deployment of asphaltene inhibitor.