Halliburton's customized scale control solutions from Multi-Chem help protect production equipment from damaging mineral deposits, maintaining asset integrity, and enhancing production over the entire life cycle of the well.

In oil and gas production systems, inorganic mineral components of produced waters often become supersaturated, leading to scale deposition on the inner walls of flowlines, filters, valves, treating equipment, and tanks. Besides restricting or stopping the flow of fluids, these deposits can also reduce the heat transfer efficiency in heat exchangers and condensers, causing overheating and early tube failures.

With a full range of scale inhibitors to prevent various types of mineral deposition, and scale dissolvers to remove deposits which have already formed, Multi-Chem provides customized scale control solutions for each specific application.

Relying on our years of water treating expertise, Multi-Chem works with you to analyze the water chemistry in your production and injection systems for scaling tendencies. With detailed water analysis including ions, pH, and dissolved gases, we run an advanced modeling program to predict scaling tendencies and examine any deposits that may have formed to identify scale type. Only then do we develop the specific scale control program and chemical application that best fits your production needs.

Because different chemistries are effective against different types of scale, Multi-Chem has conducted extensive laboratory testing to determine compatibility with produced fluids and effectiveness of scale inhibition. Treatment delivery is optimized for the application method, such as batch treatment, continuous treatment via annulus flush or capillary tubing injection, or squeeze treatment to deposit the scale inhibitor in the formation. As a result, our customized scale control solutions remove deposits effectively and inhibit their formation, reducing costs associated with scale cleanup and disposal, while helping increase production and prolong the life of your well.
**Features**

- Customized solutions based on prediction of scale deposition from detailed water analysis and modeling
- Wide range of specialty scale inhibitors, lab tested for compatibility and effectiveness in a variety of scale production challenges
  - Water- and oil-soluble options available, as well as scale inhibitors with high calcium and iron ion tolerance
  - Traceable polymer scale inhibitor with bonded tag for high temperature applications
  - Squeezable scale inhibitor options and solid scale inhibitor for frac applications
  - Certified products specifically qualified for umbilical and capillary injection using the most rigorous fit-for-purpose standards in the industry
  - Environmentally friendly chemistries to meet specific customer needs
- All application methods including batch treatment, continuous annulus flush or tubing injection, and squeeze treatment
- Continuous assessment and optimization through post-treatment monitoring

**Benefits**

- Customized scale control that best fits specific production needs is most cost-effective solution
- Effective scale control reduces downtime for mechanical, acid, and/or chemical cleanout
- Extends life of well and equipment by minimizing deposits that cause excessive wear
- Maintains flow capacity of flowlines associated with surface equipment for more efficient operations
- Reduces operational and capital expenses associated with scale related issues
- Contributes to maximum hydrocarbon production over the entire life cycle of the well

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For more information, please contact your local sales representative or e-mail multichem@halliburton.com

*Multi-Chem’s customized scale control solutions help protect production equipment from damaging mineral deposits, maintaining asset integrity, and enhancing production over the entire life cycle of the well.*