RockOn® Surfactants
Custom RockOn® surfactants from Multi-Chem, a Halliburton Service, deliver superior results in the field—higher initial production and greater ultimate recovery for better financial returns over the life of your well. Specifically formulated based on core sample testing, each RockOn solution is custom-tailored to take into account the unique reservoir characteristics, with options to fit your specific environmental requirements.

Features
- Custom-tailored surfactant chemistry designed to optimize production from your specific reservoir source rock
- Optimal interaction with broader API gravity range of oils to increase mobility through reservoirs
- Thermally stable to 250°F (121°C) for use in a wide range of reservoirs
- Tolerant of up to 20 percent TDS in water
- Proven compatibility with all major gel systems and friction reducers
- Environmentally conscious surfactant options

Benefits
- Yields higher initial production and greater estimated ultimate recovery
- Optimized usage rates minimize costs and maximize returns
- Enables use of produced water rather than fresh water in fracturing operations
- Increased fluid mobility improves lift efficiency, extending pump life
Our Exclusive Patent-Pending RockOn Surfactant Selection Technology Ensures the Right Solution For Your Well

Designed to optimize production from your reservoir source rock, Multi-Chem’s exclusive patent-pending RockOn surfactant selection techniques closely tie lab results with field performance. Each RockOn solution is specifically formulated based on core sample testing, resulting in a custom-tailored solution that takes into account your unique reservoir characteristics and specific environmental requirements.

Multi-Chem technical professionals evaluate capillary force reduction and emulsion tendency, as well as surfactant loss and efficiency using core flood to maximize surfactant performance and increase total hydrocarbon returns.

This proprietary surfactant selection technology consistently produces lab results that are proven in field applications, where RockOn solutions are setting new standards of performance in well after well.

**Increased Reservoir Penetration**

In a normal frac job, the frac fluids and surfactants penetrate a certain radius in the reservoir as shown in yellow in Figure 3. Much of the hydrocarbon remains trapped in the small pore spaces and isn’t able to be produced due to the small pore throats, relative to the size of the oil droplets.

RockOn surfactants are designed to increase the radial penetration of the frac jobs, providing access to more of the reservoir and trapped oil as shown in green in Figure 4. RockOn chemistry elongates the oil droplets trapped in small pore spaces, allowing the oil to move through the small pore throats, enabling more oil to be produced.
Case Study

RockOn Delivered Superior Results in the Field—Higher Initial Production and Greater Ultimate Recovery for Better Financial Returns Over the Life of the Well

RockOn surfactant design and testing procedures have consistently resulted in higher hydrocarbon production in unconventional applications. Results for these shale operators show the impact of customized RockOn solutions.

In Wolfcamp, Multi-Chem worked with an operator to get reservoir core samples to Multi-Chem’s R&D facility for surfactant testing. Extensive testing was performed using Multi-Chem’s proprietary product selection techniques which closely tie lab results with field performance. As a result of the study, a new RockOn surfactant, MX 5-2673, was developed. In the lab, this surfactant outperformed existing chemistry in its ability to penetrate the crushed core and produce hydrocarbons. The extensive testing revealed that the optimal dosage rate of RockOn MX 5-2673 surfactant to produce peak results varied from each core, from 1-3 gallons per thousand gallons (gpt).

This surfactant was applied on the next four frac jobs at a rate of 1 gpt for this pilot project. The results are demonstrated in the charts on the right. Combined, the four wells totaled 4,714 BOE per day increase beyond the normal expectations. At $100/OBE, this would equate to an additional $471,400 per day revenue increase for this producer.

What Other RockOn Surfactant Customers Are Saying

Bakken – “Significantly improved oil production.”
Barnett – “Gas production up 456 percent.” | “Oil production up 107 percent.” | “This was the first time we’ve gotten oil in the flowback fluids!”
Eagle Ford – “Initial production up 36.5 percent versus peak average.” | “Our well treated with RockOn was the best producer in our field.”
Wolfcamp – “Wells treated with RockOn are producing beyond our expectations.”

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