SwellPlug LCM

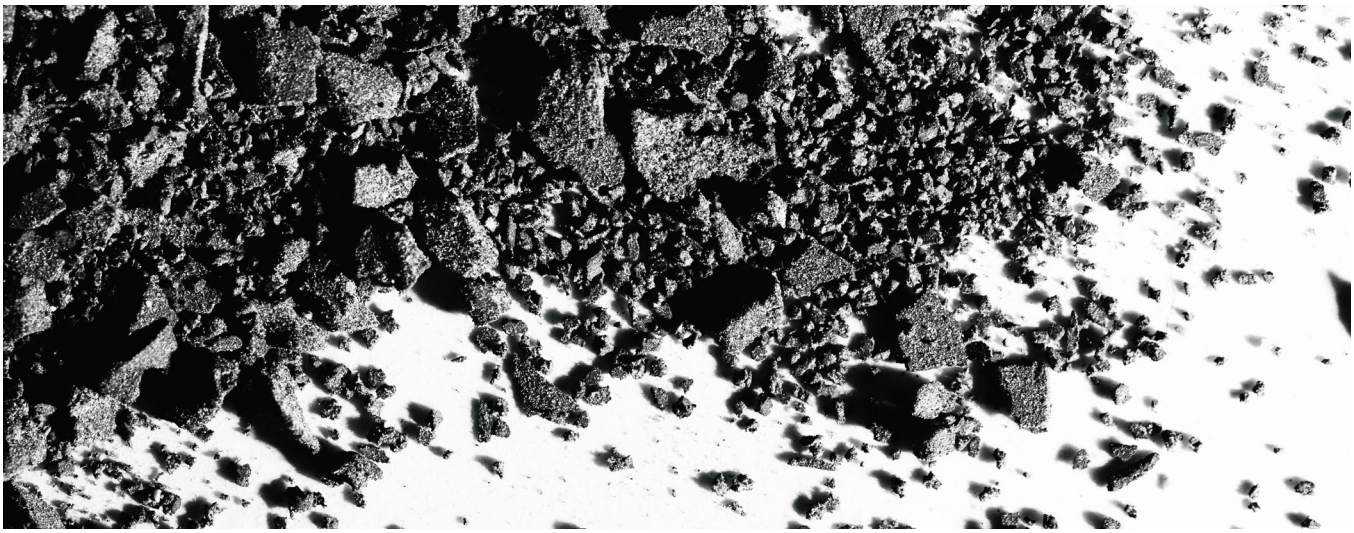
TECH SPEC SHEET

Weak or fractured formations can result in fluid losses. TAQA has developed SwellPlug LCM a cost effective, low complexity method to isolate formation damage and mitigate exceedingly high loss zones resulting in zonal shut off in a single simple treatment. SwellPlug LCM uses TAQA's patented, field proven blend of swelling elastomer technology combined with an activated fiber, to create a high-pressure steal.

SwellPlug LCM combines super absorbent elastomers and osmotic swell mechanism swellable elastomeric rubber with our activated fibers to create a superior sealing solution. Upon contact with drilling fluid, SwellPlug particles expand and interlock, forming a three- dimensional network that effectively conforms to the space sealing fractures and voids—delivering a stronger, more reliable barrier. These barriers can hold 10,000 psi differential pressure and withstand long term repeated pressure cycling.

The SwellPlug particulates are batch mixed at surface and pumped downhole using standard cementing or mixing equipment. The design and volume of the particulate material are based on the size of the void space of the zone to be isolated.

This simplicity and versatility allows it to be used for an expansive amount of isolation needs including water control, sustained annular pressure, cementing, casing integrity solutions, and control fluid losses even under the most extreme conditions.



FEATURES AND BENEFITS

- **PROPRIETARY** - osmatic swell mechanism
- **RESISTANT** - with chemical and temperature
- **CAPABLE** - of withstanding > 10,000psi differential pressure
- **OPERATIONAL** - up to 250°C (482°F)
- **400%** - up to 400% increase in size (multiple size options/blends)