

Technical Sales Bulletin

Resin Coated Proppants

Low temperature bonding without a consolidation aid

SiberProp™ Low Temperature Resin Coated Sand



SiberProp™ proppants are a Stress Bond™ technology type resin coated sand available in a 16/30 mesh size. Tan in color, the SiberProp resin system is applied to high quality frac sand.

The unique properties of the SiberProp resin have redefined curable proppants. By using a specially formulated resin system, SiberProp proppants develop significant strength in the bonded pack at very low bottom-hole temperatures without the need for external activators.

This proppant has a history of success in many of the major plays throughout North America and is particularly successful in the Permian Basin¹.

Technical Applications

Fracture Treatments:

- At closure stress up to 8,000 psi [55MPa]
- At bottom-hole static temperatures from 130 – 200°F (54 – 93°C)
- When high strength in the bonded pack is necessary or desirable at very low temperatures

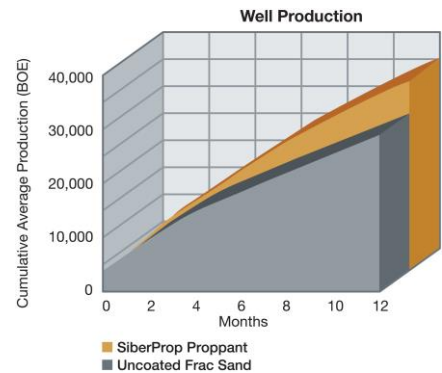
Technical Advantages and Benefits

- Low temperature bonding down to 130°F (54°C) bottom-hole static temperature without the use of a low temperature consolidation aid
- Optimized AcTivator™ consolidation aid loading recommendations are available based on well specifics to maximize performance and minimize additional cost to the operator
- Higher strength in the bonded pack at lower temperatures than conventional curable resin coated proppants
- Consolidates with closure stress in the fracture
- Helps prevent proppant flowback

SiberProp Proppant Case History

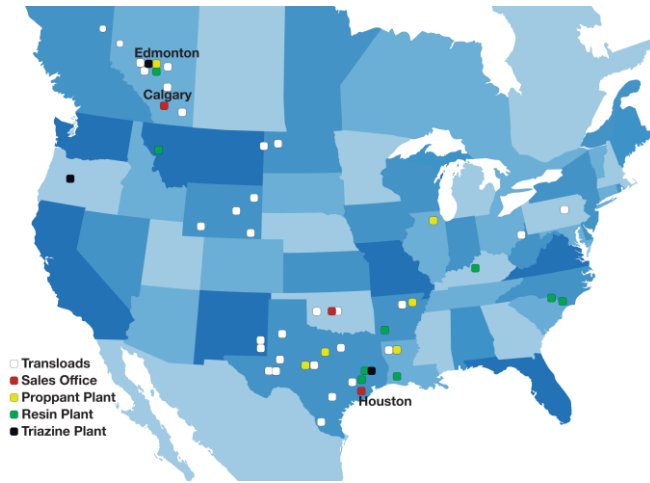
A Permian Basin operator increased oil production in their well by utilizing SiberProp proppant.

- SiberProp proppant tail-in wells outperformed 100% uncoated frac sand wells
- 42% more production in the first 12 months
- ROI for SiberProp proppant: two months



Well Characteristics	
Production	Oil
TVD	6,900 – 7,100 ft
BHST	150°F (66°C)
Closure Stress	4,800 – 5,200 psi
Proppant	SiberProp Proppant, UFS
Frac Fluid	Crosslinked Fluids

North America Manufacturing and Distribution Network



Hexion continues to expand capacity and strategically locate transloads near the major shale plays in North America to meet the industry's increasing need for resin coated proppants.

SiberProp Proppant Long-Term Conductivity

Stim-Lab, Inc. Consortium Long-Term Baseline Procedure
 Proppant Concentration: 2 lb/ft³ (9.8 kg/m³), Temperature: 150°F (66°C)

Closure Stress (psi)	2,000	4,000	6,000	8,000
Size	Conductivity (md-ft)			
16/30	5,089	4,125	2,708	1,226

References

1. SPE 97161-MS: "Flowback Prevention – A New Technology for Low BHST Applications", Johnson, D.E. et al., 2005.



Hexion Inc.
 Oilfield Technology Group
 15366 Park Row
 Houston, TX 77084 USA
 +1 281 646 2800
hexion.com/oilfield

© 2015 Hexion Inc. All rights reserved.
 ®, ™ and ℠ denote trademarks owned or licensed by Hexion Inc.

HXN-241. 12/15/15

The information provided herein was believed by Hexion Inc. ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. HEXION MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.