



TURBOprop™

Superior by Nature, Quality by Badger®

TURBOprop™ utilizes a patented surface modification technology, which creates an attraction to gaseous phases present in the fluid. The result is a fluidized proppant that flows further, and allows for increased proppant concentration - all without the need for increased fluid viscosity.

Typical Properties

	20/40	30/50	40/70	50/140
Krumbein Shape Factor - Sphericity	0.7 - 0.8	0.7 - 0.8	0.7 - 0.8	0.6 - 0.7
Turbidity (NTU)	3.6	10.9	11.2	17.1
Acid Solubility	< 1.5%			
Absolute Volume (gal / lb)	0.0453			
Particle Size Distribution	Meets API 19C			
Color	Light Buff to White			
Physical State	Free Flowing Solid			
Dry Bulk Density (lb./gal.)	13.05	12.81	12.74	12.35
Specific Gravity	2.65			
Crush Resistance (K Value)	6,000	8,000	10,000	10,000

Conductivity and Permeability

Closure Stress PSI	20/40		30/50		40/70		50/140	
2,000	2521	141	1257	70	633	36	426	22
4,000	2075	117	1019	57	553	31	345	18
6,000	1452	83	753	43	457	26	243	13
8,000	933	55	542	31	350	20	145	8
10,000	531	32	340	20	243	14	77	5

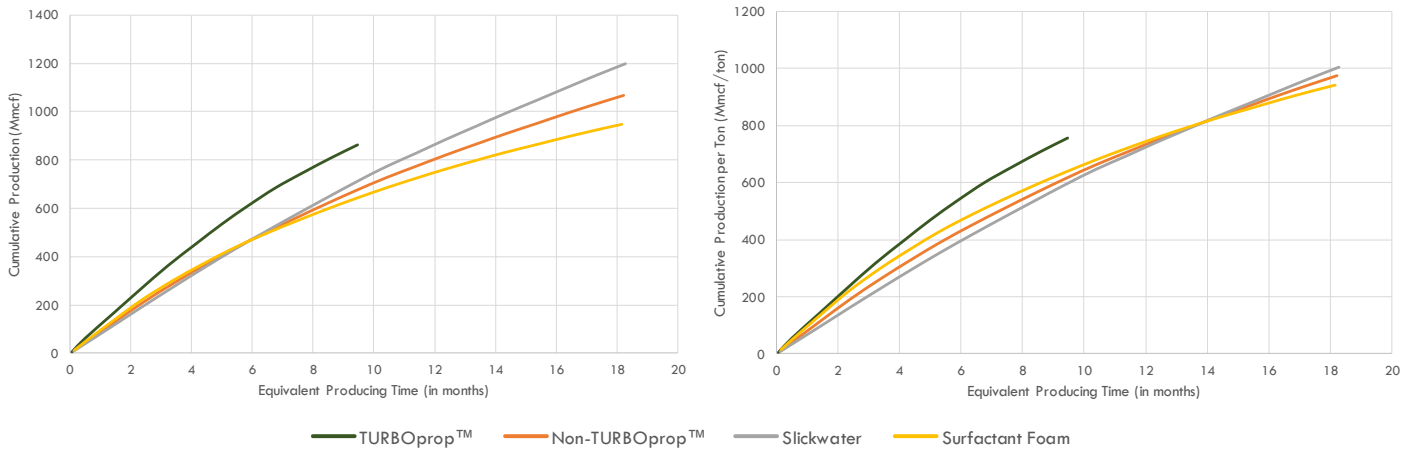
Conductivity md-ft

Permeability Darcy

* Data points represented by mean value of accumulated Stim-Lab data of testing run at 2 lb/ft² and 250°C (121°C)

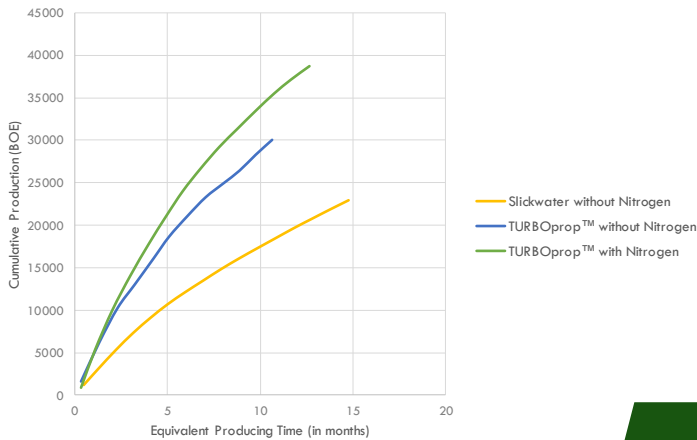
Cumulative Production (Mmcf)

Case Study | Pouce Coupe Field - Montney Formation, British Columbia

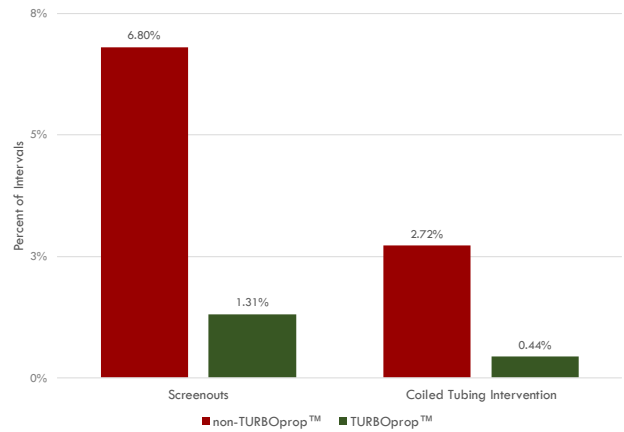


Cumulative Production (BOE)

Case Study | Cardium Formation, Alberta



Case Study | Cardium Formation, Alberta



Screenouts and Coiled Tubing Intervention

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Silica Sand and Resin-Coated Silica Sand Products DANGER

These products have been classified, following the Globally Harmonized System (GHS) of Classifying and Labeling Chemicals criteria, as a Category 1A Carcinogen, a Category 1 Specific Target Organ Toxicity (following repeated exposures), and a Category 2B Eye Irritant. For Industrial Use Only. DO NOT USE THIS PRODUCT FOR BLASTING OR AS AN ABRASIVE. DO NOT PNEUMATICALLY UNLOAD THE RESIN-COATED SILICA SAND PRODUCTS AT A PRESSURE EXCEEDING 5 PSI SO AS TO AVOID ABRADING THE PRODUCT. DO NOT BREATHE DUST. Read the specific Safety Data Sheet (SDS) before using and follow applicable local, state and federal health and safety standards. The SDSs for the products are available online at www.badgerminingcorp.com or by calling 715-662-2400. October 22, 2016 Revision E