



BADGER MINING CORPORATION

TECHNICAL DATA Atlas Precured Resin Coated Proppant (PRC)

ATLAS Precured Resin Coated (PRC) products offer an excellent price-to-performance ratio when proppant flowback is not a concern. Our exclusive resin complex provides protection from harsh well conditions and reduces or eliminates fines migration in the fracture. The durable nature of our coating significantly reduces embedment versus uncoated propping agents like hard ceramic proppants, and because our coating is non-reactive it reduces scale formation. All products from Atlas are coated on a premium Northern White sand substrate.

- PRC products are 2.6 - 2.8% resin by weight - limiting cost without sacrificing performance
- PRC products are not designed to prevent proppant flowback. For proppant flowback prevention please see our CRC-E and CRC-C product lines

TESTS - UNITS	TYPICAL PROPERTIES
Krumbein Shape Factor-Sphericity	0.7-0.8
Loss on Ignition	2.6%-2.8%
Turbidity (NTU)	< 200
Acid Solubility	< 0.3%
Absolute Volume (gal/lb)	.047-.048
Particle Size Distribution	Meets or exceeds API RP-56
Color	Gold
Physical State	Free Flowing Solid

API Mesh Size	20/40	40/70
Bulk Density (lb/cu.ft)	100.51	98.63
Specific Gravity	2.57	2.50
Unconfined Compressive Strength:		
Crush Resistance at 8,000 psi	<=3%	<=2%
pH Water Extract ml (Buffer)	9 ml	9 ml

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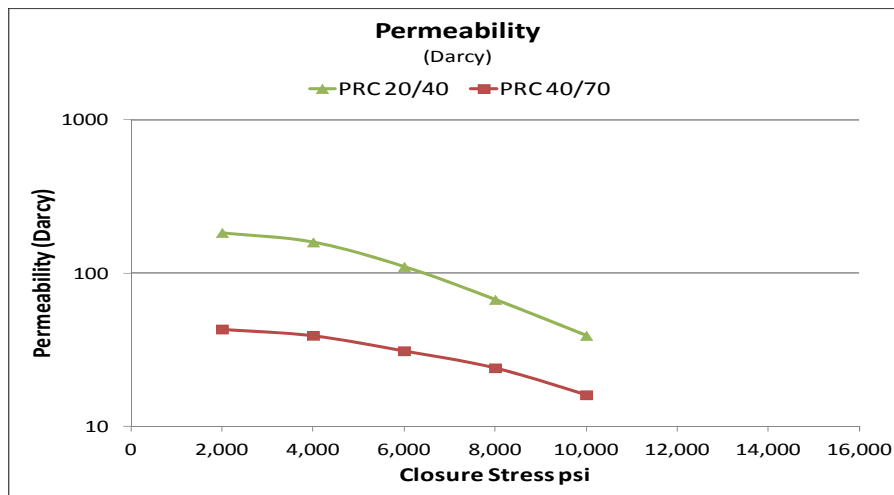
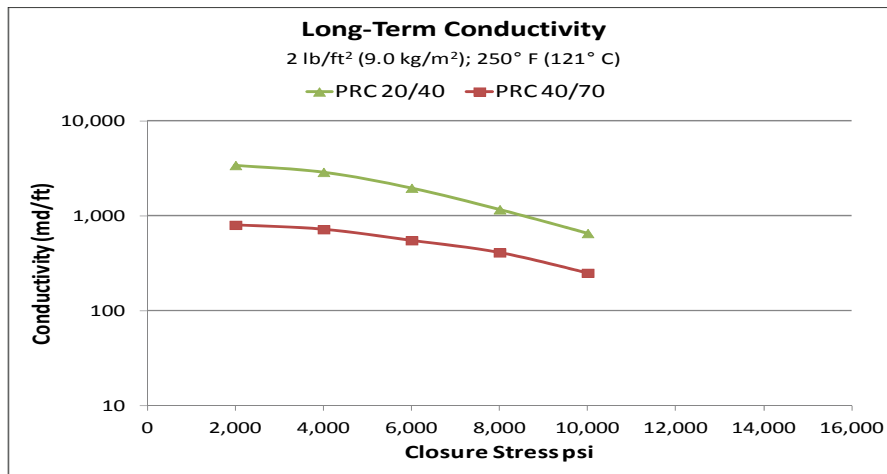
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CONDUCTIVITY							
MD-FT AT 2 lb/ft ² (9.8 kg/m ²); 250°F (121°C)							
	Closure Stress psi						
	2,000	4,000	6,000	8,000	10,000	12,000	14,000
PRC 20/40	3,417	2,894	1,969	1,168	655		
PRC 40/70	800	720	550	410	250		

PERMEABILITY							
Darcy							
	Closure Stress psi						
	2,000	4,000	6,000	8,000	10,000	12,000	14,000
PRC 20/40	183	159	110	67	39		
PRC 40/70	43	39	31	24	16		

* Data points represent the median value of accumulated Stim-Lab data



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 1-800-932-7263. February 11, 2015 Revision D