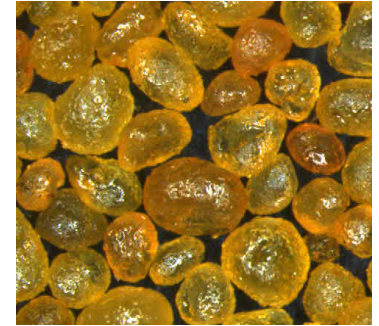


InnoProp® Python CR Resin-Coated Proppant



InnoProp® Python CR is a high-performance curable resin-coated proppant at a superior value. Developed by our in-house team of scientists, this new product prevents proppant flowback to the well-bore with high-end conductivity and strength resulting in improved well performance.

Applications include all sandstone and fractured shale formations requiring elimination of proppant flowback. It is recommended for formations with net closure stresses up to 10,000 psi.



ADVANTAGES AND BENEFITS:

- Increased Conductivity
- Prevents proppant flowback
- Reduces embedment
- Substrate is high-quality U.S. Silica White® silica sand
- Compatible with all current fluid systems
- Excellent bond strength in the fracture
- Available in multiple mesh sizes

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

API RP-19C / ISO 13503-2

Product	Mesh Size	Upper Temp Stability (°F)	Bulk Density g/cm ³	Bulk Density lb/ft ³	Particle Density g/cm ³	Absolute Volume gal/lb	Typical Median Diameter D50 (mm)	Acid Solubility (%)	Turbidity (NTU)
InnoProp Python CR	20/40	500	1.55	96	2.56	0.046	0.572	< 2.0	< 250
InnoProp Python CR	30/50	500	1.53	95	2.55	0.046	0.445	< 2.0	< 250
InnoProp Python CR	40/70	500	1.48	92	2.54	0.047	0.334	< 2.0	< 250

CONDUCTIVITY

Product	Mesh Size	CONDUCTIVITY MD-FT at 250°F 2 LB/FT ²				
		Closure Stress [PSI]				
		2,000	4,000	6,000	8,000	10,000
InnoProp Python CR	20/40	1,892	1,795	1,573	1,057	483
InnoProp Python CR	30/50	1,133	1,014	789	477	219
InnoProp Python CR	40/70	734	705	518	275	132

PERMEABILITY

Product	Mesh Size	PERMEABILITY DARCY at 250°F 2 LB/FT ²				
		Closure Stress [PSI]				
		2,000	4,000	6,000	8,000	10,000
InnoProp Python CR	20/40	104	100	88	60	28
InnoProp Python CR	30/50	62	56	44	27	13
InnoProp Python CR	40/70	39	38	28	15	8

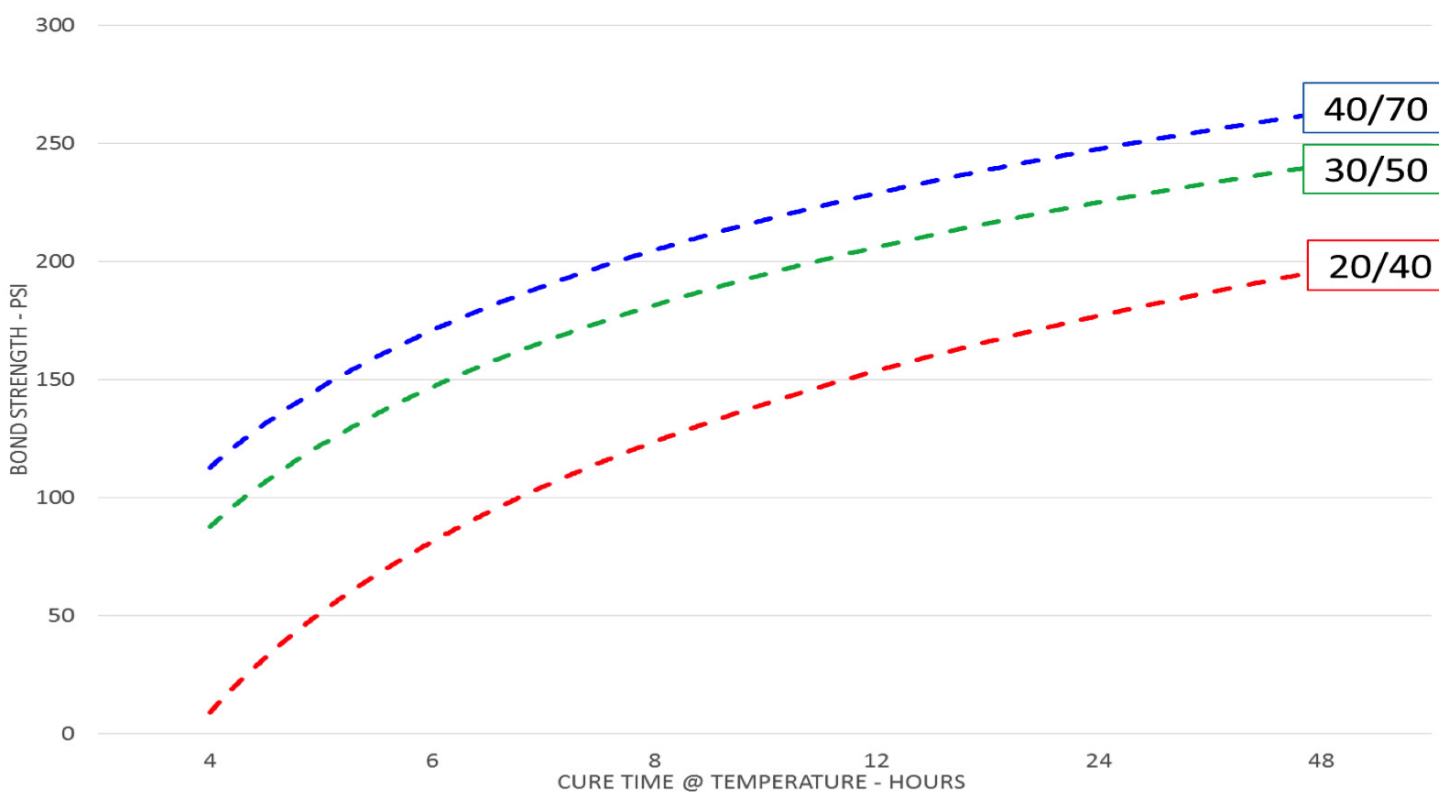


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UNCONFINED COMPRESSIVE STRENGTH [UCS] - PSI

Product	Mesh Size	4 HR	6 HR	8 HR	12 HR	24 HR	48 HR
		1,000 PSI	1,000 PSI	1,000 PSI	1,000 PSI	1,000 PSI	1,000 PSI
InnoProp Python CR	20/40	48	52	73	141	188	238
InnoProp Python CR	30/50	96	141	178	194	215	263
InnoProp Python CR	40/70	132	155	186	214	255	285



Compatibility: This resin-coated proppant is fully compatible with most, if not all, commonly used fracturing fluids both water and oil based. Testing with specific fluids prior to pumping is highly recommended. Some fluids may require adjustment of pH control, breaker, or foamer loadings. Avoid prolonged exposure to highly alkaline fluids, i.e., pH greater than 12 and/or greater than the equivalent of 2.2 gallon free caustic soda per 1000 gallons of liquid.

Disclaimer: The information set forth in this Product Data Sheet represents typical properties of the product described; the information and the typical values are not specifications. U.S. Silica Company makes no representation or warranty (expressed or implied) concerning the products, described in this product data sheet.

Warning: The product contains respirable crystalline silica-quartz, which can cause silicosis (an occupational lung disease) and lung cancer. For detailed information on the potential health effects of respirable crystalline silica – quartz, see the U.S. Silica Company Safety Data Sheet.

USS1702

