

New Product!

InnoProp® Viper CR Resin-Coated Proppant



InnoProp® Viper CR is an **ultra high-performance** curable resin-coated proppant designed to prevent proppant flowback near 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
- Durable coating significantly reduces fines generation
- 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 Viper CR	20/40	500	1.55	96	2.54	0.047	0.623	< 2.0	< 250
InnoProp Viper CR	30/50	500	1.53	95	2.54	0.047	0.459	< 2.0	< 250
InnoProp Viper CR	40/70	500	1.48	92	2.55	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 Viper CR	20/40	2,654	2,465	2,169	1,283	775
InnoProp Viper CR	30/50	1,426	1,288	1,136	768	487
InnoProp Viper CR	40/70	746	674	559	376	235

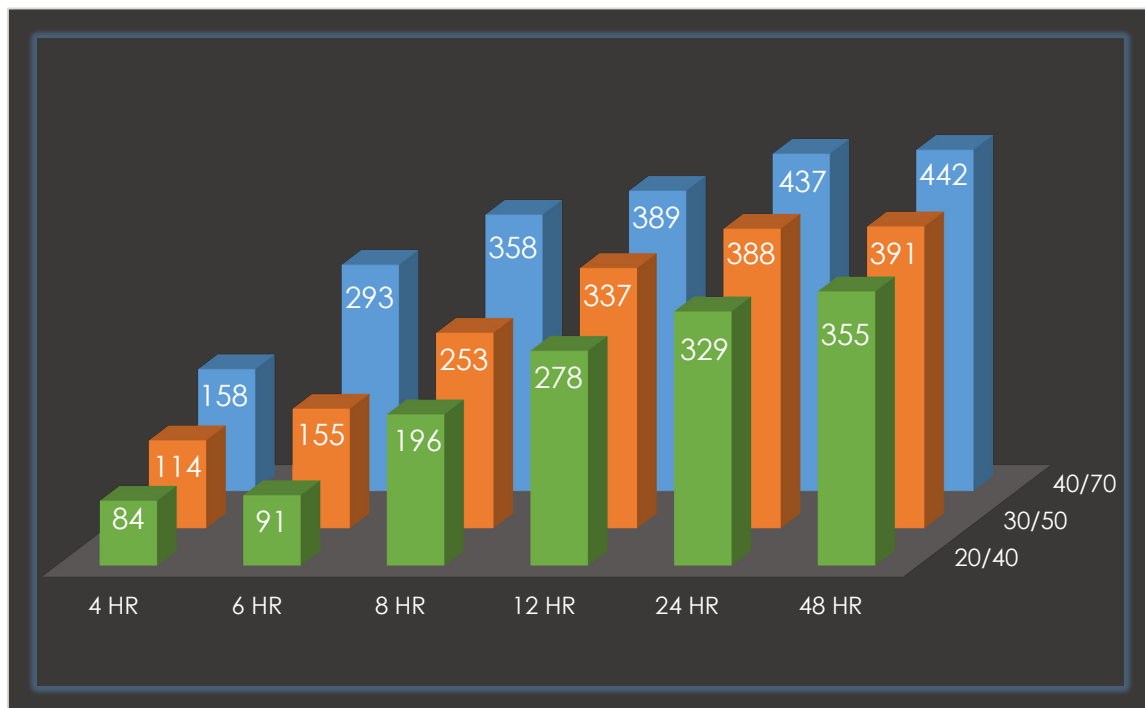
PERMEABILITY

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 Viper CR	20/40	139	130	116	70	44
InnoProp Viper CR	30/50	72	66	59	41	27
InnoProp Viper CR	40/70	38	35	30	20	13



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 Viper CR	20/40	84	91	196	278	329	355
InnoProp Viper CR	30/50	114	155	253	337	388	391
InnoProp Viper CR	40/70	158	293	358	389	437	442



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 fluids.

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.

USS2300

