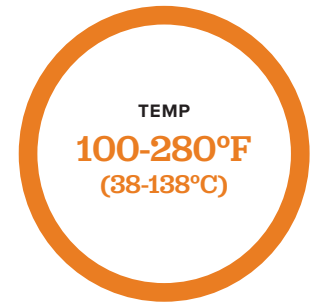
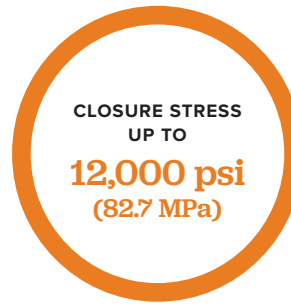


CURABLE RESIN-COATED PROPPANT

APPLICATIONS AND BENEFITS

- Enhanced proppant flowback control and conductivity
- Enhanced crush resistance minimizes fines generation
- Reduces embedment by redistributing stress
- Minimizes proppant scaling resulting in increased flow capacity and long-term EUR
- 99.8%+ pure-quartz Northern White sand
- Use SuperSet W[®] activator if BHT<150°F (66°C)



PHYSICAL AND CHEMICAL PROPERTIES

API 19C

Mesh Size	Krumbein Sphericity	Krumbein Roundness	Absolute Density g/cm ³	Bulk Density lb/ft ³ (g/cm ³)	Absolute Volume gal/lb (cm ³ /g)	Acid Solubility %	Turbidity FTU	K-Value
40/70	0.7	0.7	2.61	89.3 (1.43)	0.0459 (0.3831)	<1.0	<250	12
30/50	0.8	0.8	2.61	91.8 (1.47)	0.0459 (0.3831)	<1.0	<250	12
20/40	0.8	0.8	2.61	94.9 (1.52)	0.0459 (0.3831)	<1.0	<250	11

UNCONFINED COMPRESSIVE STRENGTH (UCS)

Test specimens made using 2% KCl

Mesh Size	Test Temperature °F (°C)	Closure Stress psi (MPa)	Shut-in Time hr	UCS psi (kPa)
40/70	200 (93)	1000 (6.9)	24	860 (5.93)
30/50	200 (93)	1000 (6.9)	24	800 (5.52)
20/40	200 (93)	1000 (6.9)	24	690 (4.76)

CONDUCTIVITY

Conductivity (md-ft), API 19D, tested @ 250°F (121°C)

Closure Stress psi (MPa)	2,000 (13.8)	4,000 (27.6)	6,000 (41.4)	8,000 (55.2)
40/70	820	710	520	260
30/50	1670	1490	1150	720
20/40	3020	2740	2370	1390

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Covia is the oil and gas industry's leading mineral and material solutions provider, with a broad array of high-quality products and distinctive technical capabilities. We have a strong legacy built on a spirit of partnership—with each other, our customers and our communities—because we believe it creates the best ideas, products and outcomes. Partnership attracts great people and helps them excel while fueling innovation and prosperity for all our stakeholders.

Our ability to reliably deliver the right products, to the right place and at the right time, is unmatched. Just as strong is our commitment to building partnerships that help our customers succeed.

All information contained herein is subject to change without notice. Data listed above are typical values and have been generated by Covia and/or independent laboratories. Every real-world sampling is different so your results may vary. Covia proppants and activators are compatible with most commonly used water- and oil-based fracturing fluids. Some fluids may require adjustment of pH control (pH <11.0), foamer, or breaker loading. Avoid prolonged exposure to highly alkaline fluids. Testing prior to pumping is advised.

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