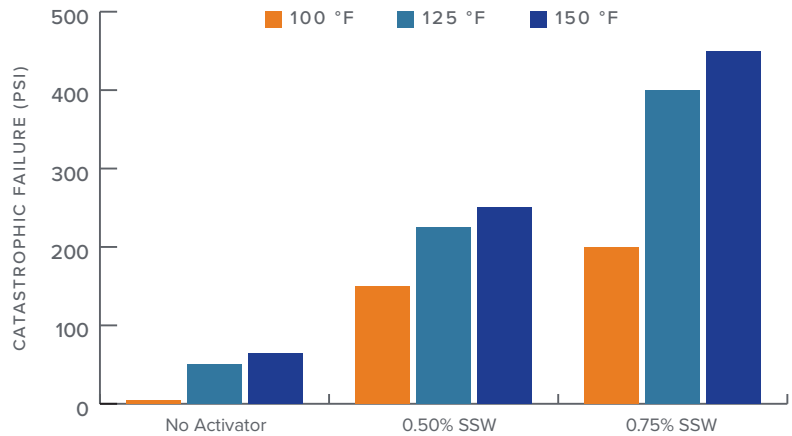


ACTIVATOR

- Superset®W Activator is a liquid chemical used to help bond curable resin proppants together when downhole temperatures are too low to thermally activate resin bonding
- When proppant flowback control is important, Superset®W activator is recommended with curable resin (Super LC®, Super DC®, Trueset®) at temperatures below 150 °F
- Formulated for use in water-based fracturing fluids, Superset®W is time tested in building bond strengths in low-temperature wells

UNCONFINED COMPRESSIVE STRENGTH (UCS) AT DIFFERENT TEMPERATURES

USC: 40/70 SLC + SSW



UNCONFINED COMPRESSIVE STRENGTH (UCS) PSI

Test conditions: 1000 PSI, 24hrs, 2% KCL

Product	Activator	Activator (%)	Shut-in Time (hrs)	UCS (PSI)		
				100 (°F)	125 (°F)	150 (°F)
40/70 SLC	None	—	24	20	50	60
40/70 SLC	SSW	0.50	24	150	220	270
40/70 SLC	SSW	0.75	24	230	410	460

2829 Technology Forest Boulevard, Suite 100 | The Woodlands, Texas, USA 77381 | 1.800.243.9004 | CoviaCorp.com | EnergyCS@CoviaCorp.com

Covia is a leading provider of high-performance proppant and sand-based products used by oil and gas exploration and production companies to enhance the productivity of their wells. The company also provides high-quality products, strong technical leadership and applications knowledge to end users in the foundry, building products, water filtration, glass, and sports and recreation markets. Its global logistics capabilities include a wide-ranging network of distribution terminals and thousands of rail cars that allow the company to effectively serve customers wherever they operate. As one of the nation’s longest continuously operating mining organizations, Covia has developed a strong commitment to all three pillars of sustainable development, People, Planet and Prosperity. Correspondingly, the company’s motto and action orientation is: “Do Good. Do Well.” For more information, visit CoviaCorp.com.

All information contained herein is subject to change without notice. Data listed 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, foamer, or breaker loading. Avoid prolonged exposure to highly alkaline fluids. Testing prior to pumping is advised.

The information contained in this data sheet is for general application and is believed to be accurate at the time of printing. Covia makes no warranty, expressed or implied, concerning these products. Covia assumes no responsibility or liability whatsoever for any of the information contained herein or for the use of such information.