



HYBRID CHEMICAL
TECHNOLOGIES

ENZYME BREAKER

HEB-1

HEB-1 contains hemicellulase breaker concentrate and a propylene glycol freeze point depressant. Liquid enzyme breakers eliminate premix times and the dusting normally associated with powdered breakers. They can be run continuously and adjusted for concentration while pumping

TREATMENT

HEB-1 is generally used at a loading of 0.5 to 2.0 L/m³, depending on BHT and gel strength. Use HEB-1 in the pH range of 2-8 and for temperatures up to 70 °C.

OPERATIONAL BENEFITS

- Easily metered into solution.
- Can be added continuously on the fly or batch mixed.
- Locally manufactured in Alberta.
- Breaks HEC, Guar, and derivatized guar gels.
- Easily ramped up and down during pumping stages.
- Compatible with most fracturing and drilling additives.

PROPERTIES

Appearance	Colorless Liquid
Odor	None
Specific Gravity	1.02
Solubility	Soluble in Water