



**HYBRID CHEMICAL
TECHNOLOGIES**

GEL/FR BREAKER

HPB-1

HPB-1 is a cost effective powder persulfate oxidative breaker used for reducing the viscosity of polymer based fluids. It breaks down polymers such as guar based linear and crosslinked fluids as well as polyacrylamide based friction reducers. HPB-1 is used in low temperature wells to allow breaks at temperatures below 30°C.

APPLICATION

HPB-1 is typically used at loadings of 0.1 -0.5 kg/m³, but loadings can vary to increase or decrease the desired break time and can depend on such factors such as gel concentration and temperature.

PROPERTIES

Appearance	White crystalline powder
Bulk Density	1050 kg/m ³
pH	4.0
Flash Point	>93°C
Specific Gravity	1.98

HANDLING & STORAGE

Handle wearing appropriate PPE. Ensure adequate ventilation. Store out of direct sunlight. Refer to SDS for more information.

OPERATIONAL BENEFITS

- Controlled break profiles for guar gels, ideal for shallow wells, and BHT between 30-40°C.
- Allows for complete breaks of gels thereby improving cleanup for the formation.
- Operationally easy to add on the fly via dry add systems.