

CS-1B

A choline chloride base clay stabilizer

CS-1B is a clay stabilizer that treats swelling clays that are choline chloride based. It is effective at preventing clay swelling in shales, carbonates and sandstone. It does not suffer from the compatibility and handling issues that KCl does, and still offers exceptional protection against swelling clays and migrating fines. CS-1B also has an exceptionally low pour point, enabling it to be used in sub-zero conditions.

CS-1B is compatible with essentially all stimulation additives, and can be used with fresh water, brine, gel and slickwater. Typical loadings are 1.0-2.0gpt. Laboratory testing should be conducted to determine the most appropriate loading and ensure complete compatibility with a fluid system.

CS-1B should be stored in a cool, well ventilated environment, between 20°F and 90°F and observe good hygiene practices. Avoid breathing mist or vapor. Do not eat, drink, or smoke when handling this product. Wash thoroughly after handling.



The MajiFrac Solution
A less water intensive way to frac

Technical Specification

Appearance	Clear, colourless liquid
pH	5 - 7
Specific gravity	1.12 - 1.18
Freeze point, °F	<-40
Solubility	70°F, Miscible

