



TECHNICAL
INFORMATION
SHEET

SANDSTONE MUD ACID

Sandstone Mud Acid (SMA) is a mixture of inhibited hydrochloric acid and hydrofluoric acid. The normal mixture for SMA is a 12-3 blend. This is comprised of 12% HCL acid and 3% HF acid. However, stronger or weaker mixes may be used depending on the application.

During drilling, cementing, and perforating operations, the natural permeability of the zones can be damaged. The higher the sandstone permeability and porosity, the higher the chance that damage can occur.

SMA will dissolve any of the materials which are soluble in 15% HCL. In addition, it will dissolve siliceous materials such as bentonite, naturally occurring formation clays, and siliceous minerals, all of which are only slightly soluble in HCL.

If the sandstone to be treated is high in limestone or dolomitic cementation material, a pre-flush and post-flush of HCL solution is recommended to prevent a precipitation of calcium or magnesium fluoride. SMA should never be pumped into limestone formations.

Sandstone Mud Acid has been extensively used for initial acid treatments in sandstone reservoirs throughout the Illinois Basin for years with very good success.

SMA is compatible with all of Franklin's other acidizing chemicals.