

DESCRIPTION

SS-25 is a surface active agent used in acids, brines and water based fracturing fluids. The surface tension of acids can be reduced from their initial values of 72 dynes/cm or so down to about 20 dynes/cm or less.

SS-25 is normally used at a rate of 2 gals per 1000 gals of fracturing fluid and 4 gals per 1000 gals of matrix acidising fluids.

APPLICATION

The reduction of capillary pressures between stimulation fluids and the producing fluids in the formation results in a more rapid clean up after stimulation, and a lowering of the aqueous phase saturation in the rock. This contributes to a higher relative permeability to the producing phase. The introduction of fluorinated surfactants such as **SS-25** has allowed these effects to be enhanced over the results obtained with conventional surfactants. The treatment of dry gas wells in particular benefits from such surfactants in that the amount of fluid returns tends to be much larger. If additional non-emulsifiers or anti-sludge agents are included in the treating fluid, the surface tension will be slightly higher than with **SS-25 alone**.

Typical values of surface tension with 0.2% **SS-25** in 15% HCl are 17 - 20 dynes/cm with interfacial tensions of 1 dyne/cm or less.

MIXING PROCEDURE

Mix the water and inhibitor first, followed by **SS-25** and mix thoroughly. Add the concentrated acid and again mix thoroughly.

PHYSICAL PROPERTIES

Appearance	Clear, pale yellow liquid
S.G. at 20°C	0.92
Flash point	20°C
Ionic nature	Non-ionic

PACKAGING

Supplied in 200L UN standard steel drums

ADDITIONAL INFORMATION

None