

Emulsifier (Acid Retarder)

(AAR 1001)

Application

(AAR 1001) is an emulsifier which provides a stable emulsion by retarding the activity of the hydrochloric acid through limiting contact between the acid and carbonate formation. The type of this acid can be hydrochloric acid, mud acid and organic acid. It can be used at temperatures up to 280 °F. The typical concentration for this additive is 10-20 gal/Mgal of acid solution (one vol percent).

Physical and chemical properties

Item	Description	Properties
1	Physical	Dark Red liquid
2	Odor	Specific
3	Solubility in water	Dispersible

Features

- This additive retards acid activity by preventing acid/carbonate contact.
- It provides a stable emulsion which causes live acid to be able to penetrate deeply into the formation.
- When the acid begins to spend, the emulsion separates clearly and does not re-emulsify.
- It is compatible with all hydrocarbons and incompatible with strong oxidizer.

Benefits

- Long conductive channels can be created due to the acid retardation effect.
- Improves overall job cost-effectiveness and job safety.
- Fluid viscosity allows usage as matrix or fracture treatment fluid.

Packaging

Drum: 55 gal