GEOCHEMM

Technical Data Sheet

GEO IRC 320

IRON CONTROL

Scope of Application	**:**	**GEO IRC 320** is a blend liquid product in order to prevent iron origined damages and /or problems especially during acidizing operations. Acid pumped into a well dissolves rust, iron scale and iron-bearing formation minerals. The iron remains in solution until the acid is spent and the pH of the fluid begins to rise. As the pH of the spent acid nears 2, the ferric iron (valence +3), which normally accounts for about 20% of the total iron, precipitates as ferric hydroxide. Ferric hydroxide is a shiny, gelatinous mass which can plug formation permeability, reducing production. When **GEO IRC 320** is used as an acid additive, the formation of ferric hydroxide precipitate is inhibited. The dissolved iron and other acid reaction products remain in solution and are removed from the formation as the well flows back and cleans up. Without using iron chelating agent, iron ions will be insoluble form and this will eventually decrease the efficiency of application.
Form	:	Solid
Color	:	White
Solublity	:	Fully soluble (water, acid, brine)
Shelf Life*	:	If storage condition is applied, the shelf life of product is 12 months.
Packing	**:**	25 Kg craft bag
Application	**:**	**GEO IRC 320** is effective against iron ions and many other minerals. Most effective pH range is <4.5 Dosage depends on iron concentration, acid strength (14%-28%), contact time and also temperature. To chelate 1 ppm of ferrous and ferric iron, 15 ppm **GEO IRC 320** needs to be dosed.
Storage	**:**	The product should be stored in original container and should be very well closed after using. Refer to MSDS document for more detailed information.

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