



Acid Package for HCl Stimulation Operations

R & D team of Polyex has developed an acid package designed to make a stimulation fluid based on hydrochloric acid, including the one available at the customer's. This stimulation fluid may be tailor-made so that to be the optimal and the most efficient for the treatment of particular production wells, including the ones with complicated geological conditions and the ones producing oils poorly compatible with acids.

Correct selection of the ratio of acid package components allows to optimize the content of surfactants, antisludge additives, HCl corrosion inhibitor, acid retardant, demulsifier, iron control agent, etc. in the finished stimulation fluid.



Chemicals for making acid based stimulation fluids:

1. Acid package **ACIRONIX®** for making the fluid for matrix acidizing jobs based on HCl or HCl/HF mixtures for well stimulation in carbonate and sandstone reservoirs, especially for the wells producing oils apt to precipitation at contact with acids.



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Chemical	Description	Purpose of Application	Reservoir type	Properties of The Additive as A Component of Acid Stimulation Fluid	Comments	
ACIRONIX® - ASL grade C grade L type 1	Acid additive of complex action	Applied as a component of acid package for making the stimulation fluid for acidizing of production wells	C, T	Preventing of stable high-viscose oil-acid emulsions forming and precipitation of hydrous ferric oxides, asphaltenes and sludge	Dry blend (grade C). Liquid (grade L type 1). Tentative consumption ranges from 2.5% and from 6% of the volume of ready acidizing fluid correspondingly*	
ACIRONIX® - IC Type 1 Type 2 Type 3	Acid additive of inhibiting action	Applied as a component of acid package for making the stimulation fluid for acidizing of production wells	C, T	Protection of oilfield equipment and pipe-lines from HCl, HF and acid blend corrosion, reducing of interfacial tension in oil-acid interface area	Liquid. Depending on the type the products vary in the freezing temperature. Tentative consumption ranges from 0.2 – 1.0% of the volume of ready acidizing fluid correspondingly*	
ACIRONIX® - IRON	Acid additive – iron control agent	Applied as a component of acid package for making the stimulation fluid for acidizing of production wells	C, T	Prevention of emulsion forming and precipitation in the presence of surplus of ferric Iron	Dry blend. Tentative consumption ranges from 0.5 – 1.5% of the volume of ready acidizing fluid correspondingly*	

*The consumption of the component of acid package varies to great extent depending on the properties required from the resulting stimulation fluid.



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