

**ACID COMPOSITION OF BRAND KR-1
FOR WELL TREATMENT IN CARBONATE RESERVOIRS
TU – 2458-001-79640352-2009**

KR-1HK MODIFICATION

Function

Concentrate for acid composition preparation in field and steady-state conditions.

KR-1HK composition applied for simple hydrochloric acid treatment(HAT), as well as for high-tech bottom-hole treatment (BHT) with different layer stimulation technologies of wells with the carbonate collector with high content of clays material (over 10%) elevated rock temperature (higher than 90°C) with average resin content oil and surfactants - asphaltenes which contribute to the formation and stabilization of stable acid-oil emulsions and finely dispersed sediments of insoluble salts of metals.

Reagent prevents loss during consumption of acid-insoluble reaction product with hydrochloric acid aluminosilicate (silica gels, aluminum and iron salts and aluminum).

Range of application

Used for stimulation of oil and gas producing wells in carbonate reservoirs, which lowered productivity due to formation of colmatant in bottom-hole areas, as well as oil-water emulsions.

Acid composition of the **KR-1HK**:

- Prevents the formation of highly resistant acid-oil emulsion and secondary sediments;

- Slows the reaction of the acid with the reservoir rock in 5-12 times, providing a deep penetration of the agent into the layer;
- effectively washes the pores of the filter cake from asphalt, resin, and paraffin deposits;
- collector perforation walls get hydrophobized, resulting in deeper penetration of acid in a layer while increasing its permeability to oil;
- Stabilizes the iron ions in solution by dissolving the iron-containing rocks and sediments.

Production and delivery

KR-1HK acid composition is produced in the form of concentrate for acid compositions preparation in the field and steady-state conditions.

Shipment of acid composition made from production facilities in cities of UFA and Buzuluk:

1. In bulk – in rail tank cars, fiberglass, gummed, plastic lined tank car;
2. Packaging – in 1 m3 IBC-containers; in 227l of plastic barrels.

Usage

Preparation of working solution of **KR-1HK** composition is made by diluting fresh water to the desired concentration.

The visiting specialists on "Krezol" solutions service will provide you with the selection of optimal consumption rates and acid composition **KR-1HK** injection technologies on specific fields of the Customer.

Basic properties of the composition

Appearance	Liquid from yellow to reddish colour
Mass fraction of hydrogen chloride,%, in the range of	24,0-36,0
Density at 20 °C, g/cm3	1,11-1,18
Mass fraction of iron,%, no more than	0,001

Certifications

