

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

**KR-1K MODIFICATION**

**Function**

Hydrochloric acid composition with surfactant complex with an extremely low content of iron and other substances for hydrochloride acid treatments (HAT) of average permeability carbonate formations.

Composition **KR-1K** may be used as:

- An independent agent for simple standard hydrochloride acid treatments and acid baths;
- The basis for the preparation of various types of specialized acid compositions by LLC "Krezol" technologies.

**Range of application**

Extractive well stock. Intensification of flow of oil and gas in producing wells with carbonate reservoirs, which lowered productivity due to formation of inorganic colmatant in bottom-hole areas.

Injection well stock. Increase of injection capacity wells, the removal of the skin factor.

**Production and delivery**

Acid composition **KR-1K** is produced in the form of finished hydrochloric acid composition of highly-inhibited hydrochloric acid (concentration of 15-34%) with the surfactant complex, as well as a concentrate for the preparation of the acid composition in the field and steady-state conditions.

Shipment of acid composition is made from production sites in the 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**

In a case when acid composition **KR-1K** is delivered as a concentrate the desired concentration of the working solution is reached by diluting fresh water.

The visiting specialists on "Krezol" solutions service will provide you with the selection of optimal consumption rates and acid composition **KR-1K** 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	15,0-34,0
Density at 20 °C, g/cm3	1,08-1,17
Mass fraction of iron,%, no more than	0,001

**Certifications**

