

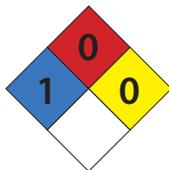


**FQE Barium-Clear**  
PATENT PENDING

Patent pending product for the dissolution and removal of hard to remove barium scale deposits.

**Features and benefits**

- Non-acidic composition is personnel and equipment safe
- Efficient scale dissolution for a variety of hard scales including barium sulfate
- Anti-redeposition formula to maintain a homogeneous fluid and prevent rescaling
- Cost effective
- Low toxicity product
- Non-corrosive on most steel



Refer to SDS for more detailed information

**Product overview**

FQE® Barium-Clear will control scale in operating systems where traditional acid treatments are not effective. This product is frequently used to increase oil and gas, and petrochemical production by removing mineral scale that is restricting flow.

**Application methods**

Barium-Clear may be used in downhole or surface installations. Methods of suggested application include continuous treatment down the annulus or treating string of producing wells, with water flush and continuous injection into surface lines. It can also be used for formation squeeze treatment of oil wells.

**Treatment**

**Downhole/Surface Facilities:** An initial high dosage of FQE Barium-Clear at a concentration of 50-100 ppm (8-16 litres /1000 bbls) should be sufficient to remove scale build-up in the system depending on the severity of the scaling problem. A fill and soak or circulation method of application is recommended for severe fouling. The duration of contact required with the scale deposits to be removed will depend on the scale composition and barium sulfate content.

For oil well clean-outs, such as removing scale from the tubing, rods and pumps, at least 2 barrels is recommended. In water wells having high injection pressures as little as 1 barrel will obtain effective pressure drops. This treatment is effective in stimulating oil well production by cleaning the formation around the well bore.

