

PRODUCTS TECHNICAL DATA

PRODUCT NAME : Chelating titanium crosslinking agent, **ME-XICR**

ME-XICR is zirconium oxychloride based cross linking agent ,using in producing organometallic complex cross-linked polymer fluids using in profile control and oil displacement agent.

ME-XICR is compatible with CO₂ when used with selected buffering agents. Carbon dioxide may be added to provide compatibility with formation fluids and to help recover fracturing fluids following the treatment.

ME-XICR is a colorless to yellow uniform liquid with the property of delaying crosslinking. It is a delayed-crosslinked gelled fracturing fluid for use in wells with bottomhole temperatures between 80°F and 275°F. The fluid incorporates a low-residue CMHPG gelling agent.

ME-XICR can crosslink with various plant gum thickeners, such as guar gum, hydroxypropyl guar gum, field gum, fenugreen gum, etc., to form a gel with good viscoelasticity.

ME-XICR has the characteristics of temperature resistance, shear resistance and small filtration loss, which can meet the needs of fracturing operation in low permeability formation above 140 °C.

ME-XICR comprises a zirconium oxychloride & acetic acid complex. The composition can be used for cross-linking organic polymers over a wide range of pH. By varying the composition and optionally adding a delay agent, the composition provides flexibility in rate of cross-linking. Further disclosed are methods to use the composition in oil field applications for hydraulic fracturing and plugging of permeable zones and leaks in subterranean formations.

Appearance: colorless viscous liquid. Recommended dosage: 0.7%

Mechanical & Chemical Properties

Items	Index
Cr ³⁺ content	≥ 2.5%
PH	9.0-13.0
ZrO ₂ content (m/m), %	≥ 0.5
Gelation time , S	≥ 60
Temperature resistance °C	≥ 150
Shear resistance of gelatin (180min, 150°C,170s), mPa.s	≥ 80
Water soluble	Soluble well