

Accelerator KWC026

1. Introduction

GeLock-F is an aqueous-based gel formed from synthetic polymer and organic crosslinkers and is used for water control in naturally fissured or fractured reservoirs. It can be applied to both injectors and producers, where a high water-cut is attributed to production through fissures or micro-fractures.

In the GeLock-F system, the primary crosslinker KWC016 and the secondary crosslinker KWC017 need to react at a certain temperature to generate crosslinker.

The addition of KWC026 can accelerate the crosslink reaction, thus saving the field treatment time.

2. Physical Properties and Hazards

Additive	Form	Specific Gravity	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KWC026	White Solid	1.43-1.63	Soluble	338	Eyes, Skin	None	4.0-6.0 (5 wt.%)

3. Chemical Properties and Application

The primary crosslinker KWC016 and the secondary crosslinker KWC017 need to react at certain temperature to generate the composite crosslinker. The lower the temperature, the slower the generation rate of the crosslinker package.

KWC026 is a strong acid and weak base salt, which can promote the reaction of KWC016 and KWC017 in order to prepare the crosslinker package much faster at lower temperature and shorter time duration is therefore required for crosslink reactions to take place, resulting in shorter field treatment time.

4. Treatment

0.0-2.0 wt.% of KWC026 is generally used to prepare the GeLock-F fluids.

5. Packaging

KWC026 is supplied in plastic-lined bags with net weight of 25 KG/bag.

It should be stored in shaded areas with good ventilation.