

# Zonal Coverage Acid™ II

## OPTIMIZING DIVERSION DURING ACID STIMULATION TREATMENTS

### OVERVIEW

Effective diversion in acidizing treatments is needed for challenging conditions such as high permeability contrasts and/or long intervals. Zonal Coverage Acid™ II (ZCA™ II) can help improve acid coverage during HCl-based stimulation treatments.

ZCA II is a non-polymeric acid gelling agent which enables self-diverting acid treatments. While little viscosity is added to the live acid by this gelling agent, once the acid spends the viscosity rapidly increases, providing excellent diversion properties to optimize acid fluid placement. The increased viscosity that forms in the ZCA II system is temporary, disappearing over time as the hydrochloric acid fully spends.

The ZCA II system was developed for both fluid-loss control and diversion purposes, enabling optimum acid distribution in long pay intervals. The maximum recommended temperature for ZCA II is 200°F (93°C). However, when cool-down is taken into account, wells with a BHST as high as 325°F (163°C) have been successfully treated.

Surfactant gelling agents may be sensitive to many types of fluid contaminants such as dissolved metals, the presence of other surfactants, and hydrocarbon solvents. Rigorous quality control of the fluids into which ZCA II gelling agent is mixed and the containers used to hold the fluid must therefore be applied. The gelling agent in ZCA II is SGA-7™; this cationic gelling agent should only be used with other chemical additives that are cationic or nonionic in nature.

### SGA-7™ Gelling Agent Specifications

SAP No:	101493534	49-gallon drum
	101493535	Tote tank
	101493533	1-pint sample
Form	Yellowish liquid	
Specific gravity	0.986	
Freezing point (°F/°C)	28 / -2	
Density (lb/gal)	8.21	
Flash Point (°F/°C)	219 / 104	

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### APPLICATIONS

- » Effectively diverts acid stimulation treatments from high permeability to low-permeability zones
- » Applicable in production and injection wells

### BENEFITS

- » Can be mixed with up to 28% HCl
- » Non-damaging to the reservoir. Excellent regain permeability properties
- » Polymer-free
- » Provides leak off control
- » Easy to mix
- » Upper temperature range of 200°F (93°C)



ZCA™ II is a non-polymeric acid gelling agent used to enable self-diverting acid treatments