



PRODUCT DATA SHEET

ECOPOL-CL1

Delayed Gel Activator

GENERAL INFORMATION:

ECOPOL-CL1 is a zirconium based crosslinker in an alcohol solution that has a built-in delay mechanism. It is a highly efficient and cost effective crosslinker for fracturing fluids based on guar and HPG, but primarily CMHPG. It works in a pH range of 4-11 and a temperature range between 150-400°F, thus making it useful for a broad range of applications.

PHYSICAL PROPERTIES:

pH = 9.0-11.0

Solubility in water = Soluble

Odor = alcoholic

Appearance = Clear, Colorless liquid

Flash point = >84°F

Specific gravity = 1.05

RECOMMENDED USES AND LIMITATIONS:

ECOPOL-CL1 is recommended as a fracturing crosslinker for applications above 150°F. Gel Activation time for Ecopol-CL1 at a fluid temperature of 120°F and pH of 9.0-11.0 is 2-3 minutes for a lipping gel. Delay time will vary with changes of both pH and temperature.

TREATING APPLICATIONS:

Normal loadings are about 0.18 gal/Mgal of **ECOPOL-CL1** per 10 lbs/Mgal of Economy's **ECOPOL-18Y2 CMHPG** gel. It should be noted that pilot testing is strongly recommended before use of this product to obtain optimum results.

ECOPOL-CL1 is available in 55 gallon drums and 317 gallon poly totes.

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