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.

This information is provided with the best of our knowledge and belief. It is user’s responsibility to satisfy himself as to the suitability of such information for his own particular use. However, no representation, warranty or guarantee is made as to its accuracy, reliability. We do not accept liability for any loss or damage that may occur from the used of this information nor do we offer any warranty against any patent infringement.