

# CA-FR1

## SALT SYSTEM DISPENSANT

### DESCRIPTION

CA-FR1 is a free-flowing granular material for use as a friction reducer/dispersant in cement slurries containing more than 18% salt (BWOW).

|                  |                          |
|------------------|--------------------------|
| Appearance       | White, granular material |
| Specific Gravity | Approximately 1.5        |

### APPLICATION

CA-FR1 should be used in cement systems where the salt concentration is above 18% by weight of water. Both CAFR3P and CA-FR3L are incompatible with high salt concentrations. CA-FR1 allows high density slurries to be mixed and pumped.

### RECOMMENDED TREATMENT

Recommendations for dosage should be made only after a thorough study has been made of all the factors affecting the application.

CA-FR1 is normally added at a concentration of 0.1% to 0.25% by weight of cement and can be added directly to the mix water or may be dry-blended with the cement. CA-FR1 has a strong retarding effect on cement slurries which permits use in wells with bottom hole temperatures in excess of 200° F.

### LIMITATIONS

CA-FR1 should be used in conjunction with calcium chloride where bottom hole temperatures are less than 140° F to help offset excess retardation.

### PACKAGING

CA-FR1 is normally available in export quality 50 lb net sacks.

### SAFETY

Eye contact should be avoided and could cause minor irritation. Repeated or prolonged contact with skin may cause skin irritation. Avoid breathing dust. In case of contact, immediately flush skin or eyes with fresh water for up to 15 minutes. If irritation persists, obtain medical attention.

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