

# Selvol™ Premiol MRC - Technical Data Sheet

## PRODUCT INFORMATION

Selvol™ Premiol MRC is a non-retarding, fluid loss control additive designed to provide for fluid loss control up to 250°F with excellent surface and downhole rheology.

Typical Selvol™ Premiol MRC concentrations range from 0.75% to 1.75% by weight of cement (%bwoc). Concentration will depend on bottom-hole temperature and desired slurry density.

### Physical Properties

- White Powder
- Specific Gravity – 1.27

### Applications

- Medium range temperature cementing (175°F - 250°F)

### Benefits

- Selvol™ Premiol MRC provides excellent fluid loss control at temperatures from 175°F - 250°F
- PVA-based powder
- Non-retarding
- Compatible with multiple additives
- Low surface rheology without settling
- Further rheology generation at down-hole conditions
- Mixable at high densities
- Environmentally friendly
- Easy to handle and design
- Lower in cost than other high temperature fluid loss additives
- Meets industry standards for fluid loss control agents
- Adjustable rheology

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## SLURRY PERFORMANCE

### Typical Performance for different slurries with Selvol™ Premioli MRC

|                                      |      |      |      |      |      |      |
|--------------------------------------|------|------|------|------|------|------|
| <b>Test Temperature (F)</b>          | 195° | 195° | 220° | 230° | 230° | 250° |
| <b>Density (ppg)</b>                 | 15.9 | 16.2 | 16.2 | 15.8 | 16.2 | 16.2 |
| <b>Selvol™ Premioli MRC (% bwoc)</b> | 1    | 1.25 | 1.5  | 1.75 | 1.75 | 0.75 |
| <b>API Fluid Loss (mL/30min)</b>     | 11   | 18   | 46   | 78   | 68   | 38   |
| <b>Free Water (%) at 190°F</b>       | -    | 0    | 1.6  | -    | -    | 0.8  |

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## RECOMMENDED SLURRY DESIGN

Texas Lehigh Class H Cement  
1.25% bwoc Selvol™ Premioli MRC  
0.63% bwoc Daxad 19  
0.02 gal/sk FP-6L  
4.37 gal/sk fresh water

Density = 16.2 lb/gal  
Yield = 1.09 cu-ft/sk

### Rheology

| Temperature | 300 rpm | 200 rpm | 100 rpm | 60 rpm | 30 rpm | 6 rpm | 3 rpm | PV     | YP                       |
|-------------|---------|---------|---------|--------|--------|-------|-------|--------|--------------------------|
| 80°F        | 79      | 52      | 27      | 17     | 9      | 2     | 1     | 78 cP  | 1 lb/100ft <sup>2</sup>  |
| 190°F       | 200     | 140     | 74      | 47     | 26     | 7     | 4     | 189 cP | 11 lb/100ft <sup>2</sup> |

### Fluid Loss

| Temperature | Collected Fluid | Time   | Fluid Loss  |
|-------------|-----------------|--------|-------------|
| 195°F       | 9 mL            | 30 min | 18cc/30-min |

### Free Water

| Temperature | Measured Fluid | Free Water (%) |
|-------------|----------------|----------------|
| 195°F       | 0 mL           | 0.0            |

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## RECOMMENDED SLURRY DESIGN

Texas Lehigh Class H Cement  
 0.75% bwoc Selvol™ Premiol MRC  
 0.88% bwoc Daxad 19  
 0.02 gal/sk FP-6L  
 0.20% bwoc SA-541  
 4.41 gal/sk fresh water

Density = 16.2 lb/gal  
 Yield = 1.09 cu-ft/sk

### Rheology

| Temperature | 300 rpm | 200 rpm | 100 rpm | 60 rpm | 30 rpm | 6 rpm | 3 rpm | PV    | YP                      |
|-------------|---------|---------|---------|--------|--------|-------|-------|-------|-------------------------|
| 80°F        | 61      | 40      | 21      | 13     | 7      | 2     | 1     | 60 cP | 1 lb/100ft <sup>2</sup> |
| 190°F       | 98      | 71      | 38      | 26     | 15     | 4     | 3     | 90 cP | 8 lb/100ft <sup>2</sup> |

### Fluid Loss

| Temperature | Collected Fluid | Time   | Fluid Loss  |
|-------------|-----------------|--------|-------------|
| 250°F       | 19 mL           | 30 min | 38cc/30-min |

### Free Water

| Temperature | Measured Fluid | Free Water (%) |
|-------------|----------------|----------------|
| 195°F       | 2 mL           | 0.8            |