

Premiol™ MRC - Technical Data Sheet

PRODUCT INFORMATION

Premiol™ MRC is a nonretarding fluid loss control additive designed to provide for fluid loss control up to 250F with excellent surface and downhole rheology.

Typical 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

- Premiol™ MRC provides excellent fluid loss control at temperatures from 175 F to 250 F
- PVA-based powder
- Nonretarding
- 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 Premiol™ MRC

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

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RECOMMENDED SLURRY DESIGN

Texas Lehigh Class H Cement
 1.25% bwoc Premiol™ 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 ²
190 °F	200	140	74	47	26	7	4	189 cP	11 lb/100ft ²

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 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 ²
190 °F	98	71	38	26	15	4	3	90 cP	8 lb/100ft ²

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