

Data Sheet	Drilling Starch exceeding OCMA DFCP 5 specs and API 13A, Section 11 (May 1,1993)
Description	low viscous fluid loss reducer
Modification and base	modified potato starch
Appearance	free flowing, granular white powder
Compatibility	all drilling fluids
Solubility/Dispersibility	readily without lump forming excellent suspensibility
Properties	
Bulk density	650 - 700gr/l
Others	resistant to high concentrations of salt (sodium, potassium) and calcium compounds.
Stability	suitably preserved with environmental friendly biocide, stable against bacteria
Particle size	< 2000 micron
Application	Fluid Loss reducer for all types of drilling fluids Typical laboratory and field data are available for evaluation.
Rate of addition	10 - 30 kg/m ³ (4 – 11 ppb)
Storage	store dry, 12 months
Packing	25kg or 50lbs net paper bags with PE coating. special packing like jungle boxes; optional
Safety Precautions	None. Refer to Safety Datasheet.

Performance Test

Mud composition

Fresh water	
NaCl	40 kg/m ³
NaOH	0.5 kg/m ³
XC Polymer	5 kg/m ³
CaCO ₃	50 kg/m ³
EMFLOC MRE	kg/m ³

EMFLOC MRE 6kg/m ³	PV, cp	YP	API Fluidloss, ml	pH
20 Celsius	7	19	5.4	10.4
50 Celsius, 16 hours	7	19	5.9	10.3
100 Celsius, 16 hours	8	19	6.0	9.1

Mud composition

Fresh water	
NaCl(saturated)	400 kg/m ³
NaOH	0.5 kg/m ³
XC Polymer	5 kg/m ³
CaCO ₃	50 kg/m ³
EMFLOC MRE	kg/m ³

EMFLOC MRE 6kg/m ³	PV, cp	YP	API Fluidloss, ml	pH
20 Celsius	7	19	5.4	10.4
50 Celsius, 16 hours	7	19	5.9	10.3
100 Celsius, 16 hours	8	19	6.0	9.1

EMFLOC MRE 10kg/m ³	PV, cp	YP	API Fluidloss, ml	pH
20 Celsius	8	17	5.4	10.7
50 Celsius, 16 hours	9	19	5.2	10.6
100 Celsius, 16 hours	9	16	5.6	9.2

Mud composition

Fresh water	
NaCl(saturated)	400 kg/m ³
NaOH	0.5 kg/m ³
XC Polymer	5 kg/m ³
CaCO ₃	50 kg/m ³
EMFLOC MRE	kg/m ³

EMFLOC MRE 8kg/m ³	PV, cp	YP	API Fluidloss, ml	pH
20 Celsius	8	27	3.0	9.5
50 Celsius, 16 hours	13	21	4.0	10.0
100 Celsius, 16 hours	13	20	3.5	8.4

EMFLOC MRE 12kg/m³ PV, cp YP API Fluidloss, ml pH

20 Celsius	13	20	3.5	9.0
50 Celsius, 16 hours	16	20	2.9	10.7
100 Celsius, 16 hours	15	19	3.8	8.5

Data Sheet

Quality Control Test OCMA DFCP – 2

4% Salt Water Test

	Apparent Viscosity, cp	Fluidloss, ml
EMFLOC MRE, 7g/l	3.5	8.0
Requirement	max. 4.0	max. 10

Saturated Salt Water Test

	Apparent Viscosity, cp	Fluidloss, ml
EMFLOC MRE, 10 g/l	4.5	6.5
Requirement	max. 6.0	max. 10

Fresh Water Test

	Apparent Viscosity, cp	Fluidloss, ml
EMFLOC MRE, 10 g/l Before Hot Rolling	4.5	3.0
After Hot Rolling 16h, 120C	3.0	3.5
Requirement	max. 6.0	max. 10