

Evaluation of Starch based on NISOC Standard							
Laboratory Test Condition							
Lab Test Date	02 Oct 2023	Lab Temp	24	°C	Lab Humidity	30	%
Batch No	SS-F-33	Temp	250	°F	Time Duration	4+3	Hrs

Sampling procedure:

Take proper amount of Starch from each pallet and mix together (20 Samples) then run test.

Prepare 4 samples. These samples are provided as follows:

	Sample1	Sample2	Sample3	Sample4
S.S.W, CC	350	350	350	350
STARCH, gr	14	14	14	14
BARITE, gr	903	903+123	903	903+123
HEMATITE, gr	70	70+40	70	70+40
M.W, PCF	150	150	150	150
Formation Water		15% by mud volume		15% by mud volume



Rheological Properties	Before Addition of Formation Water (4HRS Roll)		After Addition of Formation Water (4HRS Roll)		Before Addition of Formation Water (4HRS Roll AND 3 HRS STATIC)		After Addition of Formation Water (4HRS Roll AND 3 HRS STATIC)	
	Req.	Result	Req.	Result	Req.	Result	Req.	Result
AV	65±5	55	50±5	54	65±5	63	50±5	47
RPM 600 @140F		110		107		126		93
RPM 300 @140F		60		59		71		52
PV	55±5	50	45±5	48	55±5	55	45±5	47
YP	14±2	10	12±2	11	14±2	16	12±2	11
GEL 10s	3±1	2	2±1	2	3±1	4	2±1	2
GEL 10min	4±1	4	3±1	4	4±1	6	3±1	4
PH	7±0.5	7.8	7±0.5	7.8	7±0.5	7.7	7±0.5	7.7
API FL, cc	≤1	0.5	≤1	0.7	≤1	0.8	≤1	0.7

Note:

- 1- The rheology parameter was measured at 140 F.
- 2- The foaming on both sample was minor

Technical Manager

QC Engineer

