NON-CRUSHABLE CEMENT: NCC-50

REPLACES 4 CHEMICALS OF CONVENTIONAL LIGHTWEIGHT SLURRIES, ENHANCES SLURRY PROPERTIES, NO COMPROMISING COMPRESSIVE STRENGTH

NCC-50

TECHNOLOGY

The Technology is based on a specific mixture of specialized industry materials. This agent takes advantage of its capability to form secondary interactions and coordination reactions to secure both its stability and water retention. Compound "NCC" replaces the need of Cenosphere for 10-12 ppg slurries and acts as the non-polymer gelling agent. NCC provides superior properties.

ADVANTAGES

- Provides high compressive strength for low density slurries.
- Provides good transition time minimizing annular gas migration.
- Provides excellent free-water control and solids suspension.
- Extends and stabilizes the cement slurry.
- Eliminates dry blend of low weight materials required.
- Controls fluid loss.

MULTIPORPUSE ADDITIVE – COST EFFECTIVE

- Replaces 4 chemicals.
- Reduces logistics cost.
- Reduces storage cost.
- Reduces manpower cost.
- Reduces mixing time.
- Reduces rig NPT.

PHYSICAL AND CHEMICAL PROPERTIES OF NCC-50

Name	Physical status	Appearance	Color	SG
NCC-50	SOLID	POWDER	GRAY	0.7±0.2

COMPRESSIVE STRENGTH OF NCC-50

Temperature	160F
Time	Compressive strength (psi)
8h	50
12 :00 hrs	400 - 500
24:00 hrs	900 - 1000

FLUID LOSS CONTROL

FLUID LOSS @ 150F: 50 ML / 30 MIN

RHEOLOGY- SLURRY 11.5 PPG

	300	200	100	60	30	6	3	PV	YP
80F	85	66	43	32	22	9	8	63	22
160F	67	51	33	24	17	8	7	51	16

DOSAGE

Density	Compressive strength	%BWOC
10	400-500	40
10.5	600-700	30
11	700-800	22
11.5	900-1000	18
12	1100-1300	14
12.5	1300-1500	10