

**DFL-NL**

**APPLICATION**

- Intermediate and Production Casing
- Liner
- Squeeze
- Plug and Abandonment
- Temperature range: 10°C - 85°C
- Dry blend only

**BENEFITS**

- Consistent performance
- Economical
- No additional dispersants needed

**FEATURES**

- Low fluid loss at elevated temperatures
- Non-retarding
- CaCl<sub>2</sub> compatible
- Typical loadings: 0.4 - 0.6%

**PHYSICAL & CHEMICAL PROPERTIES**

<b>APPEARANCE</b>	White powder
<b>TYPE</b>	Proprietary
<b>PRE-HYDRATE</b>	NO

**SAFETY & HANDLING**

<b>WHMIS</b>	Not controlled
<b>TDG</b>	Non-regulated
<b>PACKAGING</b>	25 kg bags

**DESCRIPTION**

As the cement slurry is pumped across a permeable formation it is exposed to a differential pressure. The formation acts as a filter medium allowing water (filtrate) to pass through leaving behind cement particles. Insufficient fluid loss control can cause excess filtrate resulting in an increase in slurry viscosity, higher pump pressures or in severe cases prevent proper slurry placement in both primary and remedial cementing operations.

Proper fluid loss control will improve the overall performance of the cement job by preserving the designed slurry properties. This ensures proper cement placement, improved cement bonding, predictable thickening times while maintaining the compressive strength and mechanical properties.

DFL-NL is a dispersed polyvinyl alcohol (PVA) fluid loss additive used in oil well cementing to minimize the dehydration rate of the cement slurry and maintain desired properties for placement in the wellbore and proper hydration. PVA is a film forming type fluid loss control and works by depositing a thin barrier across the permeable formation during cementing operations thus preventing excess filtrate loss to the formation.

**TECHNICAL DATA:**

**0-1-0 "G" @ 1900 kg/m<sup>3</sup>**

TEMP °C	Additives %				RHEOLOGY				FLUID LOSS A.P. I
	DFL-NL	CaCl <sub>2</sub>	LTR	MTR	300	100	6	3	
20	0.4	1.0	-	-	83	31	6	5	18
20	0.4	-	-	-	93	33	4	3	18
50	0.5	-	0.2	-	64	23	5	4	28
85	0.6	-	-	0.2	55	20	5	3	38

Tested with sodium lignosulfonate (LTR) at 50°C

Tested with MTR (ScottCo mid – temperature retarder) at 85°C