

DFL-1

APPLICATION

- Intermediate and Production Casing
- Liner
- Squeeze
- Plug and Abandonment
- 10°C - 230°C (Tested)

BENEFITS

- Consistent performance
- Economical
- Pre-hydratable
- Low rheology

FEATURES

- Linear fluid loss values
- Non-retarding to set times
- CaCl₂ compatible
- Effective in Microfine slurries
- Typical loadings: 0.3 – 1.0%

PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE	Off white powder
TYPE	Proprietary
PRE-HYDRATE	YES

SAFETY & HANDLING

WHMIS	Not controlled
TDG	Non-regulated
PACKAGING	20 kg bags

DESCRIPTION

As the cement slurry is pumped across a permeable formation it is exposed to a differential pressure across a filter medium. The filter medium allows water (filtrate) to pass through leaving behind cement particles (filter cake). 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.

DFL-1 is an “all in one” dispersant / fluid loss / free water control additive with right angle set characteristics favorable for combating gas migration. DFL-1 is a combination of selected water-soluble polymers that control fluid loss by increasing the viscosity of the aqueous phase of the cement slurry while decreasing filter cake permeability.

DFL-1 is a linear type fluid loss additive. The rate of filtrate and filter cake build-up can be controlled depending on specific job requirements and the concentration of DFL-1 used in the blend.

TECHNICAL DATA:

0-1-0 “G” @ 1900 kg/m³

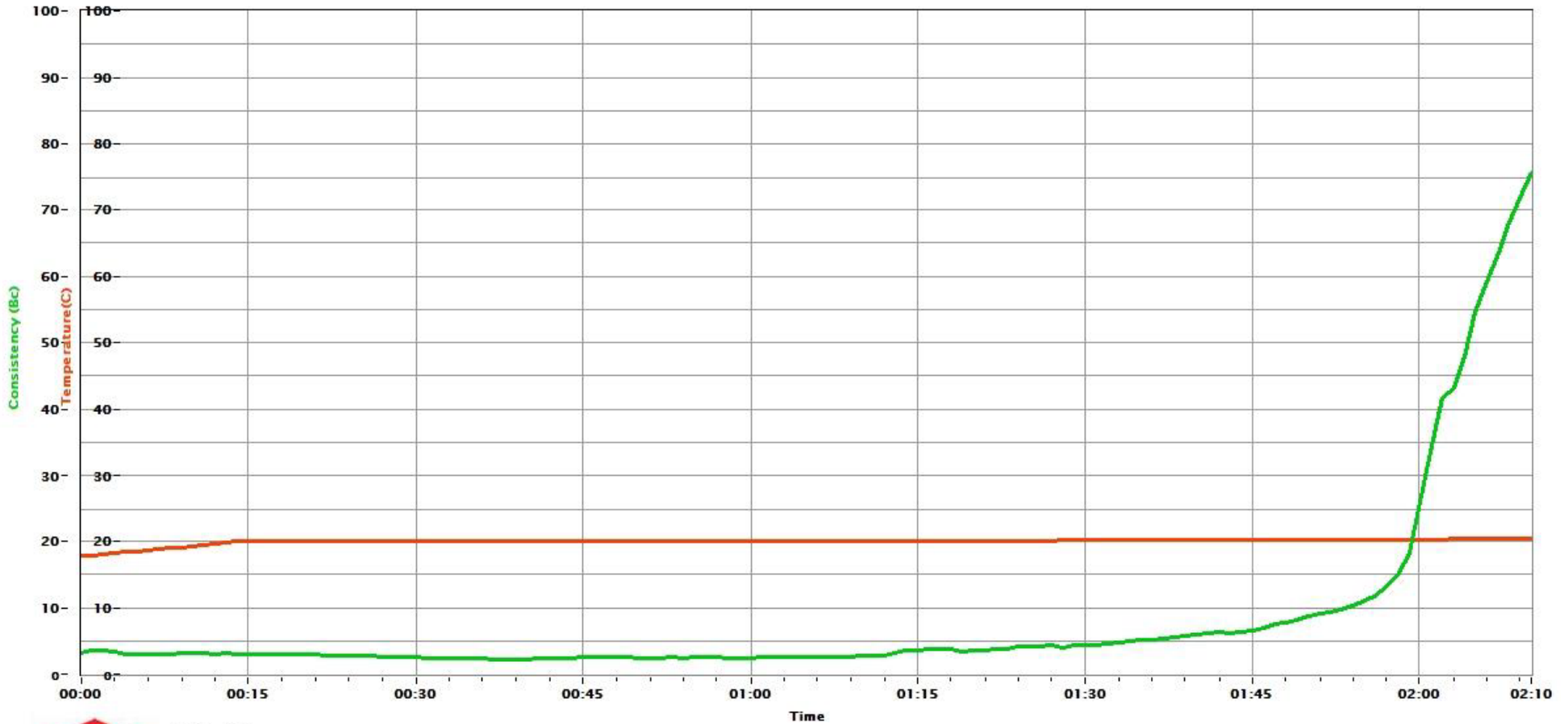
TEMP °C	ADDITIVE %				RHEOLOGY				FREE WATER	FLUID LOSS	THICKENING TIME
	DFL1	CaCl ₂	LTR	MTR	300	100	6	3	%	(mL)API	70Bc
20	0.5	1.0	-	-	91	35	5	3	0	76	2:09
40	0.35	-	-	-	95	35	3	2	0	54	2:38
60	0.5	-	0.2	-	83	32	7	4	0	70	3:08
80	0.6	-	-	0.3	112	56	7	5	0	68	3:57

Thermal blend @ 1876 kg/m³

TEMP °C	ADDITIVE %				RHEOLOGY				FREE WATER	FLUID LOSS	THICKENING TIME
	DFL1	CaCl ₂	LTR	MTR	300	100	6	3	%	(mL)API	70Bc
100	0.6	-	-	0.5	-	-	-	-	-	82	6:42
120	0.6	-	-	0.3	-	-	-	-	-	90	2:26

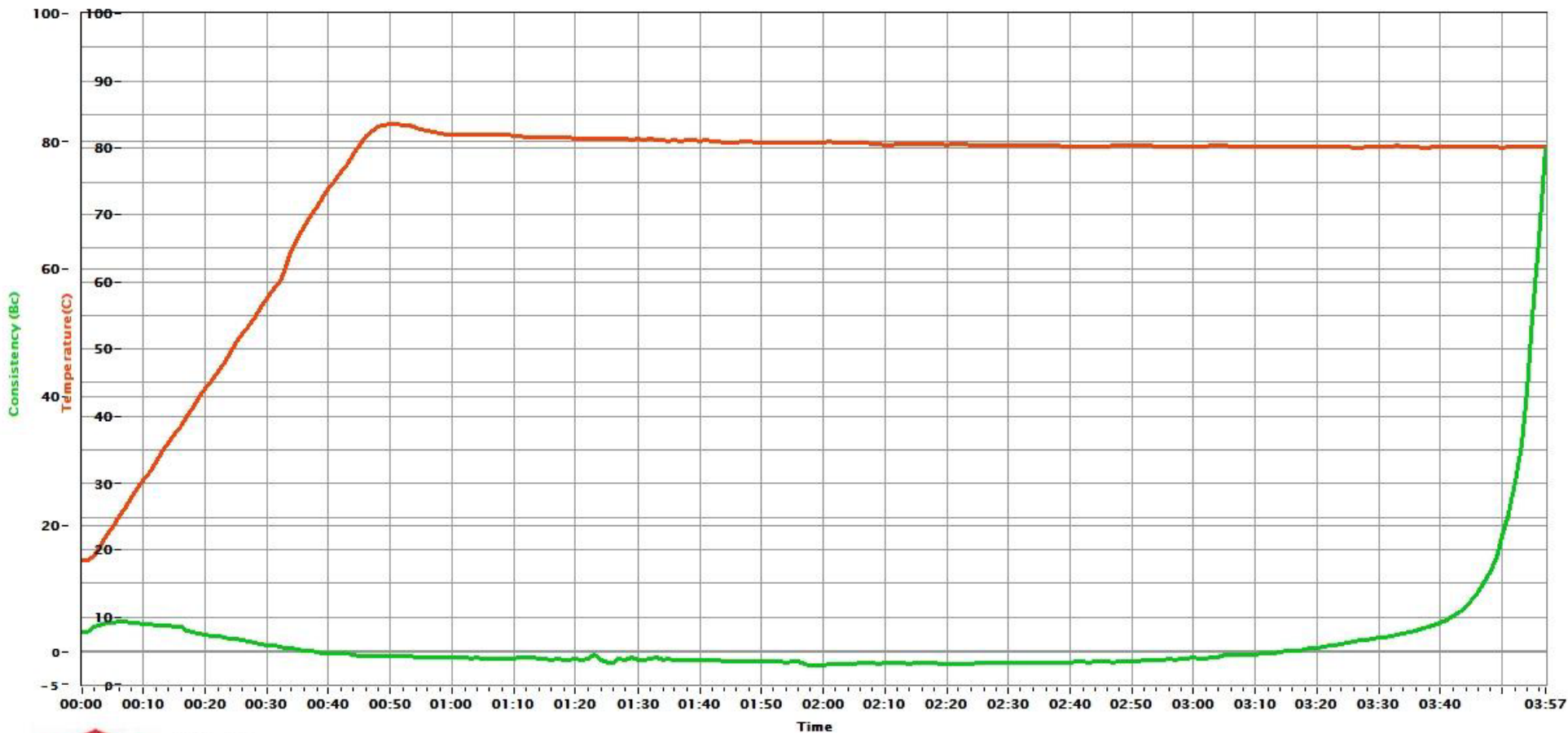
Tested with sodium lignosulfonate (LTR) at 60°C

Tested with MTR (ScottCo mid – temperature retarder) above 70°C



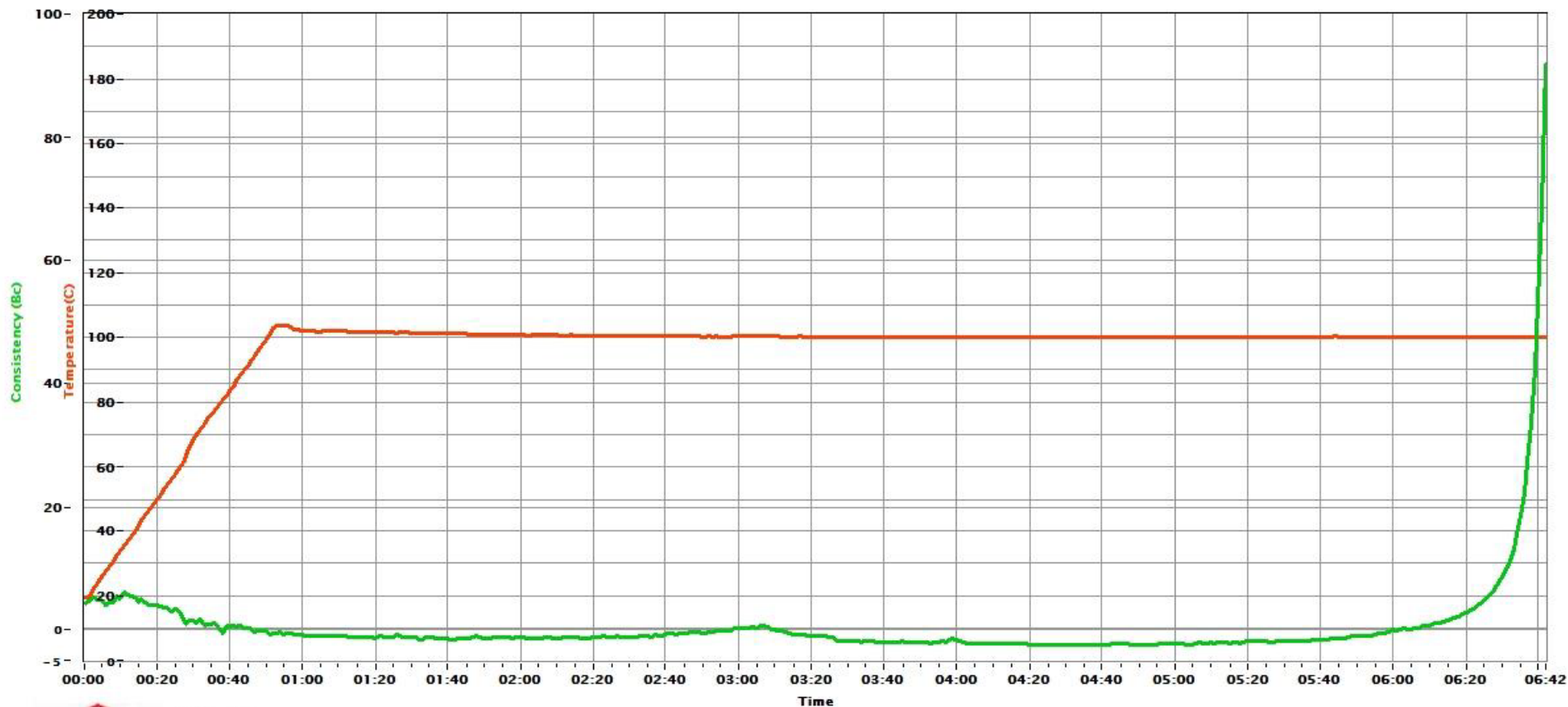
Alarm 45.00Bc	Bc 45.00 @ 123.953 minutes
Alarm 60.00Bc	Bc 60.00 @ 126.946 minutes
Alarm 75.00Bc	Bc 75.00 @ 129.958 minutes

CONTACT: SALES@SCOTTCO.BIZ
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Alarm 45.00Bc	Bc 45.00 @ 234.955 minutes
Alarm 60.00Bc	Bc 60.00 @ 235.960 minutes
Alarm 75.00Bc	Bc 75.00 @ 236.966 minutes

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Alarm 45.00Bc	Bc 45.00 @ 399.958 minutes
Alarm 60.00Bc	Bc 60.00 @ 400.964 minutes
Alarm 75.00Bc	Bc 75.00 @ 401.953 minutes

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