



Analysis for Laboratory: December 2021
Samples from: Exshaw, Mill Run Type Oil Well Class "G" HSR Average
Analysis from Period: 05 -12 December 2021
Report Prepared on: January 12, 2022

CHEMICAL ANALYSIS

Silicon Dioxide (SiO ₂)	20.4 %
Aluminum Oxide (Al ₂ O ₃)	3.7 %
Iron Oxide (Fe ₂ O ₃)	4.6 %
Calcium Oxide, Total (TCaO)	62.4 %
Magnesium Oxide (MgO)	4.6 %
Sulphur Trioxide (SO ₃)	2.7 %
Loss on Ignition	0.97 %
Insoluble Residue*	0.22 %
Equivalent Alkali (as Na ₂ O)	0.53 %
C ₃ S	60.2 %
C ₂ S	13.0 %
C ₃ A	2.1 %
C ₄ AF	13.0 %
C ₄ AF + 2 x C ₃ A	18.0 %

PHYSICAL ANALYSIS

Thickening Time (Schedule 5)	106 min.
Max. Consistency 15 - 30 min.	8 Bc
Fineness 45 µm sieve	92.4 %
Blaine	299 m ² / kg
Compressive strength 8 Hours. @ 38° C	5.7 MPa
Compressive strength 8 Hours. @ 60° C	17.8 MPa
Free Fluid	4.3 %

Specifications: Current API Spec. 10A

The cement represented here is certified to comply with all standard requirements of the above noted specification.

*Most recent value

Certified:

Lorraine Richards

Lorraine Richards
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