



Report of Cement Analysis
Grey Portland Cement

CHEMICAL ANALYSIS

| PARAMETER | RESULTS | SPECIFICATIONS |
|--|---------|----------------|
| Silicon Dioxide (SiO ₂) | 18.40% | |
| Aluminum Oxide (Al ₂ O ₃) | 5.70% | |
| Ferric Oxide (Fe ₂ O ₃) | 4.42% | |
| Calcium Oxide (CaO) | 63.70% | |
| Magnesium Oxide (MgO) | 0.71% | 6.0 % Maximum |
| Sulfure Trioxide | 2.70% | 3.5 % Maximum |
| Loss On Ignition | 2.88% | 3.0 % Maximum |
| Insoluble Residue | 0.48% | 0.75 % Maximum |
| Alkalies as Na ₂ O | 0.39% | |

PHYSICAL ANALYSIS

| PARAMETER | RESULTS | SPECIFICATIONS |
|------------------------------------|--------------|-------------------|
| Blaine Surface, m ² /Kg | 303 | 280 Minimum |
| Vicat Set, minutes | | |
| Initial | 140 | Not less than 45 |
| Final | 200 | Not more than 375 |
| | | |
| Compressive Strength, p.s.i (MPa) | | |
| 2 Day | 4312 (29.76) | 10.0 MPa Minimum |
| 7 Days | 5749 (39.65) | 17.0 MPa Minimum |
| 28 Days | 7293 (50.3) | |

The cement covered by this report complies with the current specifications of ASTM C-150