



CLINKER

| | |
|-----------------|---|
| Product | Ordinary Portland Cement CLINKER Type 1-425 |
| Standard | ASTM C150-05 |

➤ **Chemical Specification and Composition**

| ORDINARY PORTLAND CEMENT CLINKER TYPE 1-425 | | | |
|---|--------------------------|--|------------------|
| Standard: ASTM C-150 - 05 | | | |
| No | Chemical Analysis | PARAMETER | Results Obtained |
| 1 | Silicon Dioxide | SiO ₂ | 21.00 |
| 2 | Aluminium Oxide | AL ₂ O ₃ | 4.60 |
| 3 | Ferric Oxide | FE ₂ O ₃ | 3.60 |
| 4 | Calcium Oxide | CAO | 64.20 |
| 5 | Magnesium Oxide | MGO | 2.30 |
| 6 | Sulfur Trioxide | SO ₃ | 2.30 |
| 7 | Potassium Oxide | K ₂ O | 0.76 |
| 8 | Sodium Oxide | NA ₂ O | 0.24 |
| 9 | Loss of Ignition | L.O.I | 1.00 |
| 10 | Chloride | CL | 0.010 |
| Total | | | 100.01 |
| 11 | Free CaO | % | 1.40 |
| 12 | Insoluble Residue | I.R. | 0.30 |
| 13 | Tricalcium Silicate | C ₃ S | 59.15 |
| 14 | Decalcium Silicate | C ₂ S | 15.61 |
| 15 | Tricalcium Aluminate | C ₃ A | 6.10 |
| 16 | Tricalcium AluminoFerrit | C ₄ AF | 10.94 |
| 17 | Total ALKALIS | Na ₂ O + 0.658 x K ₂ O | 0.74 |



CLINKER

➤ **Physical Specification**

| ORDINARY PORTLAND CEMENT CLINKER TYPE 1-425 | | | | | |
|---|-------|-----------|---------------------------------------|------|----------|
| Standard: ASTM C-150 - 05 | | | | | |
| Fineness(sq.cm/gr) | 3,250 | Min 2,800 | Comp. Str. (MPa) | | |
| % R.S # 70 | 1.0 | | 3 Days | 24.2 | Min 12.0 |
| % R.S # 170 | 4.0 | | 7 Days | 34.5 | Min 19.0 |
| Initial Set | 140 | Min 45 | 28 Days | 44.9 | Min 28.0 |
| Final Set | 210 | Max 360 | Air content of Mortar % | | Max 12.0 |
| Auto Exp. (%) | 0.04 | Max 0.8 | Specific Gravity(g.cub.cm) | | - |
| Normal Consistency (%) | 23.80 | | Heat of Hydration at 7 Days (Cal/ gr) | | Max 70 |

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