

# Portland Cement

<b>Product</b>	Ordinary Portland Cement Type 2
<b>Standard</b>	ASTM C150-05

➤ **Chemical Specification and Composition**

ORDINARY PORTLAND CEMENT (TYPE 2)			
Standard: ASTM C-150 - 05			
No	Chemical Analysis	PARAMETER	Results Obtained
1	Silicon Dioxide	SiO <sub>2</sub>	21.10
2	Aluminum Oxide	AL <sub>2</sub> O <sub>3</sub>	4.76
3	Ferric Oxide	FE <sub>2</sub> O <sub>3</sub>	3.56
4	Calcium Oxide	CAO	64.20
5	Magnesium Oxide	MGO	2.00 (Max 6.0)
6	Sulfur Trioxide	SO <sub>3</sub>	2.30 (Max 3.0)
7	Potassium Oxide	K <sub>2</sub> O	0.76
8	Sodium Oxide	NA <sub>2</sub> O	0.24
9	Loss of Ignition	L.O.I	1.10 (Max 3.0)
10	Chloride	CL	0.010
Total			100.10
11	Free CaO	%	1.40
12	Insoluble Residue	I.R.	0.30 (Max 0.75)
13	Tri calcium Silicate	C <sub>3</sub> S	58.23
14	De calcium Silicate	C <sub>2</sub> S	16.59
15	Tri calcium Aluminate	C <sub>3</sub> A	6.59
16	Tetra Calcium Amino Ferrite	C <sub>4</sub> AF	10.82
17	Equivalent ALKALI	Na <sub>2</sub> O + 0.658 x K <sub>2</sub> O	0.79



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➤ **Physical Specification**

ORDINARY PORTLAND CEMENT (TYPE 2)					
Standard: ASTM C-150 - 05					
Fineness(sq.cm/gr)	3,150	Min 2,800	Comp. Str. (MPa)		
% R.S # 70	1.0		3 Days	21.2	Min 12.0
% R.S # 170	5.0		7 Days	29.5	Min 19.0
Initial Set (min)	135	Min 45	28 Days	38.9	Min 28.0
Final Set (min)	200	Max 360	Air content of Mortar %		Max 12.0
Auto Exp. (%)	0.04	Max 0.8	Specific Gravity(g.cub.cm)		-
Normal Consistency (%)	23.5		Heat of Hydration at 7 Days (Cal/ gr)		Max 70

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