

# Portland Cement

<b>Product</b>	Ordinary Portland Cement Type 1-425
<b>Standard</b>	ASTM C150-05

## ➤ Chemical Specification and Composition

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



➤ **Physical Specification**

ORDINARY PORTLAND CEMENT 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 (%)	23.8		Heat of Hydration at 7 Days (Cal/ gr)		Max 70

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