

# Portland Cement

<b>Product</b>	Ordinary Portland Cement Type 5
<b>Standard</b>	ASTM C150-05

## ➤ Chemical Specification and Composition

ORDINARY PORTLAND CEMENT TYPE 5			
Standard: ASTM C-150 - 05			
No	Chemical Analysis	PARAMETER	Results Obtained
1	Silicon Dioxide	SiO <sub>2</sub>	21.40
2	Aluminium Oxide	AL <sub>2</sub> O <sub>3</sub>	3.80
3	Ferric Oxide	FE <sub>2</sub> O <sub>3</sub>	4.72
4	Calcium Oxide	CAO	64.10
5	Magnesium Oxide	MGO	2.18 (Max 6)
6	Sulfur Trioxide	SO <sub>3</sub>	1.80 (Max 2.30)
7	Potassium Oxide	K <sub>2</sub> O	0.75
8	Sodium Oxide	NA <sub>2</sub> O	0.23
9	Loss of Ignition	L.O.I	1.00 (Max 3.0)
10	Chloride	CL	0.010
Total			99.99
11	Free CaO	%	1.34
12	Insoluble Residue	I.R.	0.28 (Max 0.75)
13	Tricalcium Silicate	C <sub>3</sub> S	60.90
14	Decalcium Silicate	C <sub>2</sub> S	15.44
15	Tricalcium Aluminate	C <sub>3</sub> A	2.08
16	Tricalcium AluminoFerrit	C <sub>4</sub> AF	14.35
17	Total ALKALIS	Na <sub>2</sub> O + 0.658 x K <sub>2</sub> O	0.72



➤ **Physical Specification**

ORDINARY PORTLAND CEMENT TYPE 5					
Standard	ASTM C-150 - 05				
Fineness(sq.cm/gr)	3,180	Min 2,800	Comp. Str. (MPa)		
% R.S # 70	0.0		3 Days	21.0	Min 12.0
% R.S # 170	2.0		7 Days	30.5	Min 19.0
Initial Set	135	Min 45	28 Days	39.4	Min 28.0
Final Set	210	Max 360	Air content of Mortar %		Max 12.0
Auto Exp. (%)	0.06	Max 0.8	Specific Gravity(g.cub.cm)		-
Normal Consistency (%)	23.70		Heat of Hydration at 7 Days (Cal/ gr)		Max 70

Datis Inc.

Reg. No.: 318496

Affiliated to Datis Export Group



You Desire, We Export

## Datis Export Group

YOU DESIRE, WE EXPORT

Follow US

On Social Networks



ONLINE on WhatsApp, Wechat, Telegram

+989123214280



INQUIRY and sending Letter of Intent (LOI)

[Sales@Datis-inc.com](mailto:Sales@Datis-inc.com)



[WWW.DATIS-INC.COM](http://WWW.DATIS-INC.COM)  
[SALES@DATIS-INC.COM](mailto:SALES@DATIS-INC.COM)

Tel: +98-21-460-92320  
WhatsApp/Wechat: +989123214280