



CLINKER

Product	Ordinary Portland Cement CLINKER Type 5
Standard	ASTM C150-05

➤ **Chemical Specification and Composition**

ORDINARY PORTLAND CEMENT CLINKER TYPE 5			
Standard: ASTM C-150 - 05			
No	Chemical Analysis	PARAMETER	Results Obtained
1	Silicon Dioxide	SiO ₂	21.40
2	Aluminium Oxide	AL ₂ O ₃	3.80
3	Ferric Oxide	FE ₂ O ₃	4.72
4	Calcium Oxide	CAO	64.10
5	Magnesium Oxide	MGO	2.18 (Max 6)
6	Sulfur Trioxide	SO ₃	1.80 (Max 2.30)
7	Potassium Oxide	K ₂ O	0.75
8	Sodium Oxide	NA ₂ 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 ₃ S	60.90
14	Decalcium Silicate	C ₂ S	15.44
15	Tricalcium Aluminate	C ₃ A	2.08
16	Tricalcium AluminoFerrit	C ₄ AF	14.35
17	Total ALKALIS	Na ₂ O + 0.658 x K ₂ O	0.72



➤ **Physical Specification**

ORDINARY PORTLAND CEMENT CLINKER 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

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+989123214280



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Sales@Datis-inc.com



WWW.DATIS-INC.COM
SALES@DATIS-INC.COM

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