

High Grade Clinker

S.NO.	CHEMICAL COMPOSITION	LCL CLINKER RANGES
1	CaO %	64.60
2	SiO ₂ %	21.40
3	Al ₂ O ₃ %	4.82
4	Fe ₂ O ₃ %	3.90
5	MgO %	3.00
6	F.CaO %	1.50
7	SO ₃ %	0.70
8	IR %	0.30
9	L.O.I %	0.20
10.	Chloride %	0.04
11	Na ₂ O %	0.20
12	K ₂ O %	0.65
13	Total Alkalies %	0.63
14	Moisture %	0.15
15	LSF	0.95
16	C ₃ S (C*)	56.23
17	C ₂ S	18.93
18	C ₃ A	6.18
19	C ₄ AF	11.87
20	C ₃ S+C ₂ S	75.17
21	S.M	2.45
22	A.M	1.24

Compressive Strength & Setting Time (Used 95% Clinker & 5% Gypsum)

23	02 Days	24 Mpa
24	03 Days	28 Mpa
25	28 Days	52 Mpa
26	Initial (minutes)	140
27	Final (minutes)	180

Clinker Size Specification

28	Below 1 mm (%)	8.75
29	Above 1 mm & Below 25 mm (%)	85.10
30	Above 30 mm (%)	2.80
31	Bulk Density	(Tons/m ³) 1.53
32	Liter Weight	(Tons/m ³) 1.41

C₃S (C*) Formula = 4.071 x (CaO - f.CaO) - 7.602 x SiO₂ - 6.719 x Al₂O₃ - 1.43 x Fe₂O₃

