

QUALITY PRETICULARS PF CEMENT O.P.C
(Chemical analysis and physical Parameters).

Characteristics	Units	Results	IS – 8112 – 1989	
<u>Chemical Requirements.</u>				
LOI (Loss on Ignition)	%	0.71	Max	5.0
IR (Insoluble Residue).	%	0.21	Max	5.0
MgO (Magnesia)	%	1.01	Max	6.0
SO ₃ (Sulpuric Anhydride)	%	1.97	Max	3.0
A/F (Alumina Iron Ratio)	%	1.57	Max	0.66
LSF (Lime Saturation Factory)	%	0.91	Max	0.66
C ₃ A (Triacalcium Abominate)		%	8.98	Non Specified
<u>Specified</u>				
Performance improver	%	0	Max	5.0
<u>PHYSICAL REQUIREMENTS</u>				
Standards Consistency	%	26	Non Specified	
<u>Setting Time</u>				
Initial Time	minutes	102	Min	30
Final Time	minutes	147	Max	600
Fineness	M ² /Kg.	328	Min	225
<u>Soundness</u>				
Le- Chetlier's Expansions	mm	1.5	Max	
10				
Auto Clave Expansions	%	0.088	Max	0.8
<u>Compressive Strength</u>				
3 Days		MPa	32.11	Min
23				
7 Days		MPa	42.53	Min
33				
287 Days		MPa	49.35	Min
43				
Temperature During Testing	C ⁰		Min	25
			Max	29