

PORTLAND CEMENT CLINKER Ref #5 TYPICAL PROPERTIES

Chemical Compositions	Unit	Clinker Ranges	Typical Properties
Silicon Dioxide (SiO ₂)	%	21,83 - 22,34%	22,04
Aluminium Oxide (Al ₂ O ₃)	%	4,98 - 5,22%	5,10
Ferric Oxide (Fe ₂ O ₃)	%	3,59 - 3,80%	3,68
Calcium Oxide (CaO)	%	65,51 - 66,10%	66,14
Magnesium Oxide (MgO)	%	2,50% Max	2,35
Potassium oxide (K ₂ O)		0,63 - 0,76	0,68
Sodium oxide (Na ₂ O)		0,04 - 0,06	0,05
Sulfur Trioxide (SO ₃)	%	0,90% Max	0,80
Chloride (Cl)	%	0,02% Max	0,01
Loss on Ignition (LOI)	%	0,45% Max	0,35
Total Alkalis	%	0,54% Max	0,52
Insoluble Residue (IR)	%	0,10% Max	0,08
Free Lime (F.CaO)	%	1,50% Max	1,27
Lime Saturation Factor (LSF)	%	93 - 95%	94,40
Tricalcium Silicate (C ₃ S)	%	55.80 - 58.25%	57,10
Dicalcium Silicate (C ₂ S)	%	19 - 22%	20,20
Tricalcium Aluminate (C ₃ A)	%	0,7 - 0,8%	7,80
Bulk Density	GM/Ltr	1,48 - 1,58%	1,56
Moisture	%	0,5% Max	0,40
Liter Weight		1240 - 1280	1250