

ORDINARY GREY PORTLAND CEMENT CLINKER Ref #9 TYPICAL PROPERTIES

Specification: ES 4756-1/2013

Standard: EN 197-1:2011

Chemical Properties	Unit	Typical
Silicon Dioxide (SiO ₂)	%	21,59
Aluminium Oxide (Al ₂ O ₃)	%	4,94
Ferric Oxide (Fe ₂ O ₃)	%	4,36
Calcium Oxide (CaO)	%	64,79
Magnesium Oxide (MgO)	%	1,95
Sulfur Trioxide (SO ₃)	%	0,67
Potassium Oxide (K ₂ O)	%	0,18
Sodium Oxide (Na ₂ O)	%	0,43
Chloride (Cl)	%	0,01
Loss on Ignition (LOI)	%	0,35
Free Lime (F.CaO)	%	0,54
Insoluble Residue (IR)	%	0,25
Lime Saturation Factor (LSF)	Ratio	93,45
Silica Modulus (S.M.)	Ratio	2,32
Alumina Modulus (A.M.)	Ratio	1,13
Tricalcium Silicate (C ₃ S)	%	58,10
Dicalcium Silicate (C ₂ S)	%	18,10
Tricalcium Aluminate (C ₃ A)	%	5,70
Tetra Calcium Aluminoferrite (C ₄ AF)	%	13,30
Calcium Oxide / Silicon oxide	Ratio	3,00
Cr (VI)	ppm	1,50
Liter Weight	gm/litre	1250
Total Alkalies	%	0,55