

PORTLAND CEMENT CLINKER Ref #18  
TYPICAL PROPERTIES

Chemical Composition	Unit	Specification	Results
Loss of Ignition (LOI)	%	Max. 1,00	0,34
Insoluble Residue (IR)	%	Max. 0,30	0,22
Silicon Dioxide SiO <sub>2</sub>	%		22,00
Aluminum Trioxide Al <sub>2</sub> O <sub>3</sub>	%		5,24
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )	%		3,63
Calcium Oxide CaO	%		65,91
Magnesium Oxide (MgO)	%	Max. 2,00	1,48
Sulfur Trioxide SO <sub>3</sub>	%		0,72
Lime Saturation Factor (L.S.F)	%		93,1
Tricalcium Silicate (C <sub>3</sub> S)	%	Min. 50,0	51,5
Dicalcium Silicate (C <sub>2</sub> S)	%		24,2
Tricalcium Aluminate (C <sub>3</sub> A)			7,7
TetraCalcium Aluminoferrite (C <sub>4</sub> AF)	%		11,1
Free Lime (F.CaO)	%	Max. 2,00	1,77
Total Alkalies (Na <sub>2</sub> O + 0,658 * K <sub>2</sub> O)	%		0,608
Chloride (Cl)	%	Max. 0,05	0,013
Light weight	gm / l		1290
Moisture Content (MC)	%	Max. 0,50	Null
<b>Size</b>			
0 - 5 mm	%		29,9
5 30 mm	%		65,9
> 30 mm	%		4,2
<b>Compressive Strenght</b>			
3 Days	psi	Min. 1740	3100
7 Days	psi	Min. 2760	4050
28 Days	psi		5250