

Chemical Composition		
Description	Requirement	Typical Test Results
Silicon Dioxide (SiO ₂)		21.28%
Aluminum Oxide (Al ₂ O ₃)		3.70%
Ferric Oxide (Fe ₂ O ₃)		4.46%
Calcium Oxide (CaO)		63.55%
Magnesium Oxide (MgO)	5.00* Max.	2.87%
Sulphur Trioxide (SO ₃)	3.00 Max.	1.82%
Alkalies (Na ₂ O + 0.658 K ₂ O)		0.34%
Loss on Ignition (LOI)	5.00 Max.	1.30%
Insoluble Residue (IR)	5.00 Max.	0.52%
Tricalcium Silicate (C ₃ S)	66.70* Min.	74.50%
Dicalcium Silicate (C ₂ S)		
Tricalcium Aluminate (C ₃ A)	5.00 Max	2.25%
Tetra Calcium Aluminoferrite (C ₄ AF)		13.58%
CaO/SiO ₂	2.0* Min	2.99
Chloride (Cl)	0.10 Max.	0.011%
Physical Properties		
Fineness, (Blaine Air Permiability)		3400 cm ² /gm
Soundness (Le Chatelier Expansion)	10.00 Max.	0.50 mm
Compressive Strength		
After 2 days (N/mm ²)	10.00 Min.	21.00 N/mm ²
After 28 days (N/mm ²)	42.50** Min.	46.00 N/mm ²
Initial setting time (Vicat Test) Minutes	60.00 Min.	165 minute