

TYPICAL TEST RESULT – GP CEMENT TYPE II

Chemical Composition	Specification	Result
Al ₂ O ₃	Max 6.00	4.61
Fe ₂ O ₃	Max 6.00	2.75
MgO	Max 6.00	2.91
SO ₃	Max 3.00	2.60
Loss on Ignition (LOI)	Max 3.50	2.95
Insoluble Residue (IR)	Max 1.50	0.43
Equivalent Alkalies	Max 0.60	0.45
Tricalcium Aluminate C ₃ A	Max 8.0	7.56
2*C ₃ A + C ₄ AF	Max 25.0	23.50
Sum of C ₃ S + 4.75*C ₃ A	Max 100	77.96

Physical & Mechanical	Specification	Result
Blaine Fineness	>= 2600	3850 cm ² /g
Initial Set	>= 45 min	160 min
Final Set	< 375 min	250 min
Autoclave Expansion	<= 0.80%	0.06 %
Air Content of Mortar	<= 12.0%	5.8 %
3 Day Strength	>= 12.0 MPa	25.0 MPa
7 Day Strength	>= 19.0 MPa	33.0 MPa
28 Day Strength	>= 30.0 MPa	41.0 MPa