



Asia West Cement Complex

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Product Specifications

Portland Cement	Standard
CEM I 32.5 N	BS EN 197-1
Type II (Moderate Sulfate Resistance)	ASTM C150
Type 2-325 (Moderate Sulfate Resistance)	INSO 389

Cement Chemical Composition, %wt

Components	AWCC Range	Common Requirement INSO 389
SiO ₂	-	-
Al ₂ O ₃	Max 5.0	Max 6.0
Fe ₂ O ₃	Max 4.5	Max 6.0
CaO	-	-
MgO	Max 3.0	Max 6.0
SO ₃	Max 3.0	Max 3.0
Total alkali	Max 0.9	-
(LOI) Loss on ignition	Max 2.0	Max 3.0
(IR) Insoluble residue	Max 1.0	Max 1.5
(LSF) Lime saturation factor	Min 92.0	-
(C ₃ S) Tricalcium silicate	Min 50.0	-
(C ₂ S) Dicalcium silicate	Max 22.0	-
(C ₃ A) Tricalcium aluminate	Max 7.0	Max 8.0
(C ₄ AF) Tetracalcium aluminoferrite	Max 13.0	-

Cement Physical and Mechanical Specifications

Specification surface (Blaine), m ² /Kg	Min 320	Min 260, Max 360
Autoclave expansion, %	Max 0.07	Max 0.8
Residue on sieve 45 micron, %	Max 10.0	-
Initial setting time, minutes	Min 110	Min 45
Final setting time, minutes	Max 250	Max 375
Compressive strength, MPa		
2 days	-	-
7 days	Min 30.0	Min 18.0
28 days	Min 44.0	Min 32.5, Max 52.5

- Calculation of potential cement phase composition, statistical conformity criteria and uncertainties are according to ASTM & EN standards.

Q.C Manager :



Direct Manager :



شماره ثبت ۷۷۱۰۰

