



Quality Control Department

Portland Cement Type II

Chemical specification

	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO %	MgO %	SO ₃ %	Total alkali %	LoI %	cl %	F.CaO %	I.R %	C3A %
Shahrekord Cement	21.50±0.30	5.00±0.20	4.00±0.12	64.70±0.20	≤1.70	≤1.70	≤0.70	≤1.30	≤0.03	≤1.10	≤0.65	≤7.5
ISIRI-389	≥20.0	≤6.0	≤6.0	-	≤5.0	≤3.0	-	≤3.0	-	-	≤0.75	≤8.0
BS ENV 197-1	-	-	-	-	≤5.0	≤3.5	-	≤5.0	≤0.10	-	≤5.0	-
ASTM C150	-	≤6.0	≤6.0	-	≤6.0	≤3.0	-	≤3.0	-	-	≤0.75	≤8.0

Physical specification

	Blain (cm ² /gr)	Setting time Init (min)	Setting time Final (min)	Soundness(exp) (mm)	exp %	Compr.Strength (MN/m ²)			
						2 Day	3 Day	7 Day	28 Day
Shahrekord Cement	≥2900	100±10	170±20	≤2.0	≤0.15	-	≥22.0	≥36.0	≥53.0
ISIRI-389	≥2800	≥45	≤360	-	≤0.8	-	≥10.0	≥17.5	≥31.5
BS ENV 197-1	-	≥60	-	≤10.0	-	≥10.0	-	-	≥42.5, ≤62.5
ASTM C150	≥2800	≥45	≤375	-	≤0.8	-	≥11.5	≥20.6	-

