



Quality Control Department

Portland Cement Type III

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	20.30±0.20	5.65±0.15	3.30±0.20	65.70±0.20	≤1.60	≤ 3	≤0.70	≤1.30	≤0.03	≤1.90	≤0.65	≤10
ISIRI-389	-	-	-	-	≤ 5	≤4.5	-	≤3.0	-	-	≤0.75	≤15
BS ENV 197-1	-	-	-	-	≤ 5	≤4.0	-	≤5.0	≤0.10	-	≤5.0	-
ASTM C150	-	-	-	-	≤ 6	≤4.5	-	≤3.0	-	-	≤0.75	≤15

Physical specification

	Blain (cm ² /gr)	Setting time Init (min)	Setting time Final (min)	Soundness(exp) (mm)	exp %	Compr.Strength (MN/m ²)			
						1 Day	3 Day	7 Day	28 Day
Shahrekord Cement	≥3500	90±10	170±20	≤3.0	≤0.2	≥13.5	≥34.0	≥48.0	≥61.0
ISIRI-389	≥2800	≥45	≤360	-	≤0.8	≥12.5	≥24.0	-	-
BS ENV 197-1	-	≥45	-	≤10.0	-	-	-	-	≥52.5
ASTM C150	≥2800	≥45	≤375	-	≤0.8	≥12.8	≥27.5	-	-

