



Quality Control Department

Portland Cement Type 52.5N

Chemical specification

	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO %	MgO %	SO ₃ %	Total alkali %	Lol %	cl %	F.CaO %	I.R %
Shahrekord Cement	20.30±0.20	5.65±0.15	3.30±0.15	65.70±0.20	≤1.60	≤2.80	≤0.70	≤1.30	≤0.03	≤1.80	≤0.65
ISIRI-389	-	-	-	-	≤5.0	≤3.5	-	≤3.0	-	-	≤0.75
BS ENV 197-1	-	-	-	-	≤5.0	≤4.0	-	≤5.0	≤0.10	-	≤5.0
ASTM C150	-	-	-	-	≤ 6.0	≤3.5	-	≤3.0	-	-	≤0.75

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	≥3200	90±10	170±20	≤3.0	≤0.20	≥22.0	≥33.0	≥47.0	≥61.0
ISIRI-389	≥2800	≥45	≤360	-	≤0.8	≥20.0	-	-	≥52.5
BS ENV 197-1	-	≥45	-	≤10.0	-	≥10.0	-	-	≥52.5
ASTM C150	≥2800	≥45	≤375	-	≤0.8	-	≥12.0	≥19.0	-

