

Ordinary Portland Cement

Physical specifications:

Physical elements	Blain (cm ² /gr)	Initial setting time (min)	Final setting time (min)	Compressive strength (kg/cm ²)				Autoclave expansion (%)
				2 days	3 days	7 days	28 days	
Cement	3200	220	255	185	240	330	480	0.08
Standard deviation	150	30	35	15	20	25	25	0.03
National Iranian Standard	>2800	>45	<360	>100	-	-	>425	<0.80
EN 197-1	-	>60	-	>100	-	-	>425	-

Chemical specifications:

Chemical elements	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO %	MgO %	Cl %	SO ₃ %	L.O.I %	IR %	Free CaO %	Total Alcalis %	Cr+6 %
Cement	20.80	4.65	3.90	64.30	2.20	0.025	2.30	1.30	0.35	1.30	0.65	<0.009
Standard deviation	0.40	0.25	0.25	0.50	0.20	0.005	0.30	0.40	0.20	0.30	0.05	-
National Iranian Standard	-	-	-	-	<5.00	-	<3.00	<3.00	<0.75	-	-	-
EN 197-1	-	-	-	-	-	<0.100	<3.50	<5.00	<5.00	-	-	-

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