

# portland Cement type 2

## physical specifications:

Physical elements	Blain (cm <sup>2</sup> /gr)	Initial setting time (min)	Final setting time (min)	Compressive strength (kg/cm <sup>2</sup> )				Autoclave expansion (%)
				2 days	3 days	7 days	28 days	
Cement	3400	160	200	210	285	430	570	0.08
Standard deviation	150	30	35	15	20	25	25	0.03
National Iranian Standard	>2800	>45	<360	-	>100	>175	>315	<0.80
EN 197-1	-	>60	-	>100	-	-	>425	-

## chemical specifications:

Chemical elements	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %	MgO %	Cl %	SO <sub>3</sub> %	L.O.I %	LR %	Free CaO %	Total Alcalis %	C3A %	Cr+6 %
Cement	20.90	4.70	3.95	64.20	2.20	0.025	2.35	1.00	0.35	1.30	0.65	5.80	<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	1.00	-
National Iranian Standard	>20.00	<6.00	<6.00	-	<5.00	-	<3.00	<3.00	<0.75	-	-	<8.00	-
EN 197-1	-	-	-	-	-	<0.100	<3.50	<5.00	<5.00	-	-	-	-

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