

# Pozzolanic Portland cement

## 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	3500	190	240	170	220	350	470	0.08
Standard deviation	150	30	35	15	20	25	25	0.04
National Iranian Standard	>2800	>45	<420	-	>100	>180	>300	<0.50
EN 197-1	-	>75	-	-	-	>160	>325	-

## 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 %	IR %	Free CaO %	Total Alcalis %	S-- %	Cr+6 %
Cement	27	4.6	4.0	56	2.8	0.05	2.0	1.90					<0.009
Standard deviation	0.80	0.50	0.30	1.20	0.40	0.005	0.35	0.40	0.20	0.30	0.05	0.15	-
National Iranian Standard	-	-	-	-	-	-	<3.00	<3.00	<1.00	-	-	<2.00	-
EN 197-1	-	-	-	-	-	<0.100	<3.50	<5.00	<5.00	-	-	-	-

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