



Abyek Cement co.

Cement Data Sheet

Issued Date : 1403/01/07

Portland Cement

Cement Type : 1 - 42.5 Acc. to INSO 389



Composition (%)

<u>Constituents</u>		<u>Calcium Sulfate</u>	
Portland CementClinker (K)	94.5 - 95.5	Gypsum	4.5 - 5.5
Granulated blastfurnace slag (S)	-	Other Source of Calcium Sulfate	-
Natural Pozzolana(P)	-		
Natural calcined pozzolana (Q)	-		
Siliceous fly ash (V)	-	<u>Additives</u>	
Burnt Shale (T)	-	Grinding Aid	-
Limestone (L)	-	Ferrous Sulphate	-

Compressive Strengths (Mpa)

<u>Time</u>	<u>test Method</u>	<u>Mean Values</u>	<u>Range of Values</u>
2Days	ISIRI 393	19.5	Min 10
3Days	ISIRI 393	24.6	-
7Days	ISIRI 393	35.4	-
28Days	ISIRI 393	47.6	Min 42.5 Max 62.5

Physical Properties

<u>Property</u>	<u>test Method</u>	<u>Mean Values</u>	<u>Range of Values</u>
Fineness,Blaine Test (m ² /kg)	ISIRI 390	354	Min 260
Initial setting time (minute)	ISIRI 392	156	Min 45
Final setting time (minute)	ISIRI 392	264	Max 375
Autoclave Expansion (%)	ISIRI 391	0.15	Max 0.8
Soundness (mm)	EN 196 - 3	1.1	Max 10

Chemical Properties

<u>Property</u>	<u>test Method</u>	<u>Mean</u>	<u>Range</u>	<u>Property</u>	<u>test Method</u>	<u>Mean</u>	<u>Range</u>
LOI (%)	ISIRI 1692	2.81	Max 3	Na ₂ O (%)	ISIRI 1695	0.33	-
IR (%)	ISIRI 1692	0.68	Max 1.5	Na ₂ O _{eqv} (%)	ISIRI 389	0.78	-
SiO ₂ (%)	ISIRI 1692	20.15	-	Cl (%)	ISIRI 6443	-	-
Al ₂ O ₃ (%)	ISIRI 1692	4.66	-	F CaO (%)	ISIRI 1693-2	1.08	-
Fe ₂ O ₃ (%)	ISIRI 1692	3.67	-	C ₃ S (%)	ISIRI 389	55.33	-
CaO (%)	ISIRI 1692	61.85	-	C ₂ S (%)	ISIRI 389	16.04	-
MgO (%)	ISIRI 1692	3.44	Max 6	C ₃ A (%)	ISIR 389	6.14	-
SO ₃ (%)	ISIRI 1692	2.37	Max 3	C ₄ AF (%)	ISIRI 389	11.17	-
K ₂ O (%)	ISIRI 1695	0.68	-				

Signature

Factory Address

Abyek Cement Co. Nazar Abad , Alborz Province , Iran

Tel : +982645382570 , 71 - fax : +982645383892

Website: www.abeykement.com

Email: info@abeykement.com