





Chemical Compositions & Phases %

Physical Test

Day	Chemical Compositions & Phases %																	Physical Test										Lab. Code				
	IR	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	SO <sub>3</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	Cl	LOSS	C <sub>3</sub> S	C <sub>2</sub> S	C <sub>3</sub> A	C <sub>4</sub> A,F	C <sub>4</sub> A,F+2C <sub>3</sub> A	F.CaO	Fineness		Setting time		Soundness		Compressive strength (kg/cm <sup>2</sup> )					Bend Strength (kg/cm <sup>2</sup> )			
																		Sieve 90 mic	Blaine (cm <sup>2</sup> /gr)	INIT (min)	FINAL (min)	LEACHTELIER (mm)	Auto Cleve (%)	1 DAY	2 DAYS	3 DAYS	7 DAYS		28 DAYS	2 DAYS	7 DAYS	28 DAYS
6 M	-	27.22	7.90	3.60	53.42	1.34	2.31	0.95	1.23	0.034	1.98	-	-	-	-	-	1.40	1.4	3430	130	135	1.1	0.11	-	184	217	283	385	38	53	64	54
7 M	-	27.21	7.90	3.67	52.81	1.32	2.26	0.96	1.17	0.041	2.64	-	-	-	-	-	1.60	1.1	3530	133	190	1.3	0.14	-	191	224	298	385	41	52	69	56
10 S	-	27.14	7.88	3.67	53.69	1.35	2.32	0.94	1.22	0.037	1.70	-	-	-	-	-	1.40	1.2	3770	135	190	1.1	0.11	-	201	244	311	392	42	55	74	60
15 S	-	27.12	7.84	3.68	53.40	1.31	2.28	0.97	1.18	0.037	2.12	-	-	-	-	-	1.50	1.2	3770	125	175	1.2	0.11	-	203	248	320	414	41	53	66	70
16 M	-	28.28	8.54	3.76	52.09	1.36	2.10	0.93	1.23	0.031	1.65	-	-	-	-	-	1.40	1.2	3450	135	190	1.2	0.14	-	172	206	288	382	36	52	67	72
17 M	-	28.24	8.53	3.77	51.69	1.30	2.04	0.98	1.19	0.033	2.19	-	-	-	-	-	1.60	1.1	3670	130	185	1.3	0.14	-	175	212	309	411	39	58	70	74
20 S	-	27.38	8.06	3.71	53.70	1.36	2.14	0.92	1.20	0.032	1.61	-	-	-	-	-	1.95	1.2	3640	125	175	1.3	0.17	-	185	227	317	398	39	55	74	79
23 M	-	28.90	8.66	3.84	50.99	1.30	2.10	0.95	1.20	0.031	2.00	-	-	-	-	-	1.90	1.3	3610	135	185	1.4	0.17	-	176	202	285	388	33	56	74	85
25 S	-	27.47	8.11	3.74	53.29	1.33	2.10	0.95	1.20	0.033	1.76	-	-	-	-	-	1.90	1.2	3690	125	180	0.6	0.07	-	189	226	304	404	35	56	69	88
31 S	-	26.63	7.70	3.65	54.58	1.33	2.27	0.95	1.20	0.033	1.63	-	-	-	-	-	1.60	1.4	3640	140	195	1.0	0.11	-	214	252	319	406	38	57	68	96
30 M	-	27.55	8.11	3.71	52.97	1.33	2.19	0.95	1.20	0.034	1.93	-	-	-	-	-	1.63	1.2	3620	132	185	1.2	0.13	-	189	226	304	396	38	54	69	-
Max1	-	26.63	7.70	3.60	50.99	1.30	2.04	0.92	1.17	0.031	1.61	-	-	-	-	-	1.40	1.1	3430	125	175	0.6	0.07	-	172	206	288	382	33	50	64	-
Min1	-	28.28	8.54	3.76	52.09	1.36	2.10	0.93	1.23	0.031	1.65	-	-	-	-	-	1.95	1.4	3770	140	195	1.4	0.17	-	214	252	319	414	42	58	74	-
Std	-	0.41	0.09	0.04	1.08	0.02	0.11	0.02	0.02	0.003	0.33	-	-	-	-	-	0.22	0.11	118.51	5.30	6.67	0.23	0.03	-	13.84	17.45	14.22	12.20	2.87	2.51	3.11	-



مدیر کارخانه:

مدیر کنترل کیفی و آزمایشگاهها:

رئیس آزمایشگاهها:

کارشناس آزمایشگاه:





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	IR	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	SO <sub>2</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	Cl	LOSS	C3S	C2S	C3A	C4AF	C4AF+2C3A	F.CaO	Fineness		Setting time		Soundness		Compressive Strength (kg/cm <sup>2</sup> )					Bend Strength (kg/cm <sup>2</sup> )								
																		Sieve 90 mic	Blaine (cm <sup>2</sup> /gr)	INIT (min)	FINAL (min)	LEACHTER (mm)	Auto Cleve (%)	1 DAY	2 DAYS	3 DAYS	7 DAYS		28 DAYS	2 DAYS	7 DAYS	28 DAYS					
5 S	0.47	20.28	4.42	3.57	62.48	1.36	2.73	0.52	0.60	0.030	2.14	57.6	14.7	5.7	10.9	22.2	1.25	0.7	3170	125	175	1.2	0.14	-	251	313	387	476	48	66	74	51					
11 S	0.41	20.42	4.45	3.55	62.71	1.37	2.84	0.54	0.59	0.034	1.96	57.0	15.5	5.8	10.8	22.4	1.30	0.7	3140	120	165	1.2	0.14	-	268	307	373	467	47	66	77	62					
14 S	0.42	20.48	4.46	3.52	62.58	1.35	2.74	0.53	0.61	0.030	1.77	56.3	16.2	5.9	10.7	22.4	1.05	0.8	3110	125	175	1.1	0.11	-	234	277	344	433	41	63	75	68					
26 S	0.29	20.66	4.55	3.52	62.69	1.36	2.65	0.53	0.60	0.029	1.84	55.0	17.8	6.0	10.3	22.9	1.60	0.8	3140	125	180	0.8	0.14	-	246	294	365	473	41	60	77	90					
Avg	0.40	20.46	4.47	3.55	62.62	1.36	2.74	0.53	0.60	0.031	1.92	56.5	16.0	5.8	10.8	22.5	1.30	0.8	3140	124	174	1.1	0.13	-	250	298	367	467	45	62	76	-	-				
Min	0.29	20.28	4.42	3.52	62.48	1.35	2.65	0.52	0.59	0.029	1.72	55.0	14.7	5.7	10.7	22.2	1.05	0.7	3110	120	165	0.8	0.11	-	234	277	344	453	41	60	74	-	-				
Max	0.47	20.66	4.55	3.57	62.71	1.37	2.84	0.54	0.61	0.034	2.14	57.6	17.8	6.0	10.9	22.9	1.60	0.8	3170	125	180	1.2	0.14	-	268	313	387	476	48	66	77	-	-				
S.D	0.08	0.16	0.06	0.02	0.11	0.01	0.08	0.01	0.01	0.002	0.18	1.15	1.31	0.15	0.07	0.30	0.23	0.06	24.49	2.50	6.29	0.19	0.01	-	14.10	15.95	17.97	10.21	3.51	2.87	1.50	-	-				



مدیر کارخانه: *(Handwritten signature)*

مدیر کنترل کیفی و آزمایشگاهها: *(Handwritten signature)*

رئیس آزمایشگاهها: *(Handwritten signature)*

کارشناس آزمایشگاه: *(Handwritten signature)*