



Chemical Compositions & Phases %

Physical Test

Table with multiple columns: Day, IR, SiO2, Al2O3, Fe2O3, CaO, MgO, SO3, K2O, Na2O, Cl, LOSS, CS3, CS2, CSA, CAF, CAF+2CEA, F.CAO, Fineness (Steve 90 mic, Blaine (cm²/gr)), Setting time (INIT, FINAL), Soundness (LEACHTER, Auto Clave (%)), Compressive Strength (1DAY, 2DAYS, 3DAYS, 7DAYS, 28DAYS), Bend Strength (1DAY, 2DAYS, 7DAYS, 28DAYS), Lab.Code

Summary table with columns: Avg, Min, Max, S.D. for various parameters like IR, SiO2, Al2O3, etc.

Handwritten signatures and stamps, including 'مدیر کنترل کیفیت' and 'رئیس آزمایشگاهها'.

شماره مدرک: LA-F-023-02



گزارش ماهانه کنترل کیفیت سیمان ممتازان کرمان

صفحه ۲ از ۴

تاریخ: مهر ۹۸

نوع سیمان: پرتلند پوزولانی ویژه

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	C3S	C2S	C3A	CAAF	CAAF+2C3A	F.CaO	Finess		Setting time (min)	Auto Clave (%)	Compressive Strength (kg/cm <sup>2</sup> )				Bend Strength (kg/cm <sup>2</sup> )				
	INIT	FINAL	LEACHTER	2 DAYS	3 DAYS	7 DAYS	28 DAYS	1 DAY	2 DAYS	3 DAYS	7 DAYS	28 DAYS	2 DAYS	7 DAYS	28 DAYS	2 DAYS	7 DAYS					28 DAYS								
10 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
19 S	26.52	7.61	3.97	54.71	1.21	2.27	0.86	1.21	0.025	1.59	-	-	-	-	-	-	-	0.8	140	190	0.9	0.11	180	222	316	417	36	60	69	I-CE-98-356
25 S	27.88	8.08	4.21	52.85	1.24	2.19	1.15	1.11	0.020	1.45	-	-	-	-	-	-	-	0.9	140	190	1.1	0.14	177	219	317	427	35	59	76	I-CE-98-347
27 M	28.85	8.81	4.20	50.83	1.28	2.17	1.01	1.15	0.033	1.69	-	-	-	-	-	-	-	0.7	140	190	1	0.11	183	235	319	426	36	58	70	I-CE-98-352
30 S	28.19	8.50	4.12	52.35	1.20	2.17	0.89	0.99	0.021	1.56	-	-	-	-	-	-	-	1.3	130	180	1.2	0.14	175	226	322	424	40	56	75	I-CE-98-356
31 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
32 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
33 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
34 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
35 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
36 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
37 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
38 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
39 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
40 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
41 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
42 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
43 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
44 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
45 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
46 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
47 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
48 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
49 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
50 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
51 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
52 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
53 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
54 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
55 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
56 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
57 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
58 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
59 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
60 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
61 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
62 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
63 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
64 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
65 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320
66 S	27.99	8.42	4.08	52.60	1.22	2.19	0.90	0.98	0.032	1.56	-	-	-	-	-	-	-	0.9	140	195	1.0	0.11	174	220	315	415	39	59	72	I-CE-98-320

گزارش ماهانه کنترل کیفیت سیمان ممتازان کرمان

نوع سیمان: پرتلند تیپ ۵



شماره مدرک: LA-F-023-02

تاریخ: مهر ۹۸

صفحه ۲ از ۴

Day		Chemical Compositions & Phases %																	Physical Test						Lab.Code											
		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	CaS	C <sub>2</sub> S	C <sub>3</sub> A	C <sub>4</sub> A	C <sub>3</sub> A+2C <sub>4</sub> A	F <sub>4</sub> CaO	Fineness Sieve 90 mic	Setting time		Soundness		Compressive Strength (kg/cm <sup>2</sup> )				Bend Strength (kg/cm <sup>2</sup> )									
		INIT (min)	FINAL (min)	LEACHTER (mm)	Auto Clave (%)	1 DAY	2 DAYS	3 DAYS	7 DAYS	28 DAYS	2 DAYS	7 DAYS	28 DAYS	28 DAYS	7 DAYS	28 DAYS	28 DAYS		7 DAYS	28 DAYS	28 DAYS	7 DAYS	28 DAYS	7 DAYS		28 DAYS										
5	0.40	21.43	4.21	4.69	63.74	1.39	1.87	0.61	0.59	0.017	0.67	56.3	19.0	3.2	14.3	20.7	1.70	0.6	2980	129	170	1.2	0.14	144	198	342	489	32	64	80	I-CE-98-311					
8	0.47	21.42	4.33	4.61	63.78	1.40	1.92	0.61	0.59	0.017	0.54	55.7	19.4	3.7	14.0	21.4	1.05	0.3	2950	125	175	0.8	0.07	149	193	335	484	32	58	75	I-CE-98-316					
13	0.59	21.42	4.33	4.48	63.85	1.42	1.99	0.62	0.60	0.019	0.69	56.0	19.2	3.9	13.6	21.4	2.05	0.5	2980	125	175	1.4	0.2	151	197	337	476	34	53	71	I-CE-98-325					
14	0.28	21.20	4.24	4.44	63.44	1.41	1.90	0.62	0.59	0.021	1.00	56.8	17.9	3.7	13.5	21.0	1.55	0.4	2990	125	175	1.2	0.14	161	211	323	468	34	61	77	I-CE-98-327					
15	0.26	21.54	4.28	4.59	64.16	1.43	1.92	0.61	0.60	0.019	0.65	56.7	19.0	3.6	14.0	21.1	1.35	0.4	2950	125	175	1.0	0.11	150	196	324	465	32	51	76	I-CE-98-328					
17	0.23	21.20	4.25	4.56	63.51	1.41	1.99	0.62	0.59	0.019	1.02	56.7	18.0	3.6	13.9	21.0	1.65	0.3	3050	130	180	1.2	0.14	167	206	330	463	36	56	73	I-CE-98-332					
22	0.31	21.43	4.40	4.47	63.91	1.42	1.94	0.65	0.60	0.019	0.75	55.8	19.3	4.1	13.6	21.8	1.80	0.5	2890	125	175	1.3	0.17	169	200	338	463	34	60	75	I-CE-98-342					
23	0.42	21.42	4.31	4.51	64.02	1.44	1.98	0.62	0.60	0.018	0.95	56.8	18.6	3.8	13.7	21.3	1.70	0.3	3050	135	185	1.2	0.14	161	205	336	465	34	59	71	I-CE-98-344					
27	0.35	21.25	4.28	4.50	63.66	1.42	2.00	0.63	0.59	0.018	0.55	56.8	18.1	3.7	13.7	21.2	1.70	0.5	3010	125	175	1.3	0.17	164	205	346	478	32	55	71	I-CE-98-351					
Avg	0.37	21.37	4.29	4.54	63.79	1.42	1.94	0.62	0.59	0.019	0.76	56.4	18.7	3.7	13.8	21.2	1.62	0.4	2983	126	176	1.2	0.14	157	201	335	472	33	57	74	-	-				
Min	0.23	21.20	4.21	4.44	63.44	1.39	1.87	0.61	0.59	0.017	0.54	55.7	17.9	3.2	13.5	20.7	1.05	0.3	2890	120	170	0.8	0.07	144	193	323	463	32	51	71	-	-				
Max	0.59	21.54	4.40	4.69	64.16	1.44	2.00	0.65	0.60	0.021	1.02	56.8	19.4	4.1	14.3	21.8	2.05	0.6	3050	135	185	1.4	0.20	169	211	346	489	36	64	80	-	-				
S.D	0.12	0.12	0.06	0.08	0.23	0.01	0.05	0.03	0.00	0.004	0.19	0.46	0.59	0.24	0.24	0.31	0.28	0.11	50.74	4.17	4.17	0.18	0.04	8.96	5.83	7.68	9.75	1.41	4.10	3.12	-	-				

کارشناس آزمایشگاه: [Signature]

مدیر کنترل کیفیت و آزمایشگاهها: [Signature]

مدیر کارخانه: [Signature]



