گزارش ماهانه کنترل کیفیت سیمان ممتازان کرمان

نوع سیمان: پرتلند نوع ۲ (پ ۲، ۴۲/۵)

شماره مدرک: LA-F-023-02

تاریخ: فروردین ۱۴۰۱ — صفحه ۱ از ۳

Day	Chemical Compositions & Phases %																	Physical Test												Lab.Code
																		Fineness		Setting time		Soundness		Compressive Strength (MPa)					Bend Strength MPa)			
	IR	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	K_2O	Na_2O	Cl	LOSS	C3S	C2S	C3A	C4AF	C4AF +2C3A	F.CaO	Sieve 90 mic	Blaine (m^2/kg)	INIT (min)	FINAL (min)	LEACHTELIER (mm)	Auto Clave (%)	1 DAY	2 DAYS	3 DAYS	7 DAYS	28 DAYS	2 DAYS	7 DAYS	28 DAYS	
7 S	0.58	20.79	4.36	3.55	63.53	1.29	2.76	0.58	0.65	0.018	1.74	58.4	15.6	5.5	10.8	21.9	1.60	2.3	320	140	190	1.2	0.14	-	23.8	29.0	37.0	46.4	4.3	6.2	7.6	I-CE-01-01
8 M	0.59	21.10	4.51	3.57	63.67	1.30	2.68	0.58	0.64	0.017	1.79	55.8	18.4	5.9	10.9	22.7	1.75	2.2	295	135	185	1.2	0.14	-	20.6	26.5	34.4	47.6	4.3	6.1	7.9	I-CE-01-03
9 S	0.47	20.93	4.41	3.56	63.56	1.29	2.73	0.58	0.64	0.017	1.97	57.2	16.9	5.7	10.8	22.2	1.80	2.2	314	135	185	1.3	0.17	-	23.0	28.6	36.5	48.3	4.5	6.5	8.1	I-CE-01-04
9 M	0.50	21.13	4.52	3.57	63.73	1.31	2.64	0.58	0.63	0.017	2.00	55.9	18.4	5.9	10.9	22.7	1.70	2.0	308	130	180	1.2	0.14	-	20.2	24.7	34.3	46.1	4.4	6.0	7.8	I-CE-01-05
10 S	0.57	21.00	4.48	3.59	63.84	1.33	2.76	0.58	0.66	0.017	1.77	57.2	17.1	5.8	10.9	22.5	1.70	2.1	317	130	180	1.2	0.14	-	21.7	28.2	35.7	46.3	4.2	6.1	7.4	I-CE-01-06
10 M	0.53	21.10	4.57	3.60	63.66	1.34	2.69	0.59	0.64	0.018	1.55	55.3	18.7	6.0	11.0	23.0	1.75	2.3	305	140	190	1.3	0.17	-	21.5	25.8	34.4	47.1	4.1	6.0	8.1	I-CE-01-07
11 S	0.56	20.95	4.50	3.60	63.85	1.33	2.81	0.59	0.65	0.017	1.81	57.3	16.8	5.8	11.0	22.6	1.70	2.3	311	130	180	1.2	0.14	-	23.6	29.1	35.3	47.9	4.5	6.7	8.2	I-CE-01-08
11 M	0.60	21.05	4.47	3.55	63.76	1.30	2.69	0.60	0.64	0.018	1.83	56.8	17.5	5.8	10.8	22.5	1.80	2.4	308	140	190	1.3	0.17	-	23.2	28.7	34.7	46.1	4.2	6.2	7.9	I-CE-01-09
12 S	0.39	21.01	4.48	3.57	63.78	1.31	2.75	0.59	0.65	0.018	1.89	56.9	17.3	5.8	10.9	22.5	1.65	2.1	301	130	180	1.2	0.14	-	24.1	29.3	35.9	48.4	4.7	6.6	8.2	I-CE-01-10
12 M	0.48	20.99	4.48	3.55	63.58	1.32	2.69	0.60	0.64	0.018	2.12	56.5	17.6	5.9	10.8	22.5	1.75	2.0	295	135	185	1.3	0.17	-	22.1	27.5	34.6	45.7	4.5	6.3	8.0	I-CE-01-11
15 S	0.41	21.00	4.43	3.55	63.60	1.31	2.67	0.60	0.65	0.018	1.79	56.9	17.3	5.7	10.8	22.3	1.65	2.2	311	135	185	1.2	0.14	-	21.8	25.6	35.7	45.8	3.9	5.9	7.9	I-CE-01-13
15 M	0.53	21.19	4.58	3.61	63.67	1.33	2.64	0.59	0.64	0.018	1.59	54.7	19.5	6.0	11.0	23.0	1.70	2.1	308	140	190	1.3	0.17	-	21.5	26.3	36.2	46.7	3.8	5.8	7.3	I-CE-01-14
16 M	0.47	21.10	4.53	3.56	63.55	1.32	2.66	0.59	0.64	0.017	1.65	55.2	18.8	6.0	10.8	22.8	1.75	2.1	305	140	190	1.3	0.17	-	21.4	25.3	36.0	46.6	4.1	6.3	7.9	I-CE-01-16
17 M	0.48	21.19	4.56	3.57	63.52	1.32	2.65	0.58	0.65	0.017	1.72	54.3	19.8	6.0	10.9	23.0	1.55	2.1	295	140	190	1.1	0.14	-	20.5	25.1	35.3	46.2	4.3	6.1	7.4	I-CE-01-18
18 S	0.57	21.15	4.54	3.57	63.67	1.32	2.70	0.59	0.63	0.018	1.61	55.2	19.0	6.0	10.9	22.8	1.75	2.2	308	135	185	1.2	0.17	-	22.4	27.9	37.2	47.3	4.2	6.3	7.9	I-CE-01-19
18 M	0.52	20.99	4.48	3.56	63.59	1.31	2.68	0.59	0.64	0.018	1.83	56.5	17.5	5.8	10.8	22.5	1.80	2.1	301	140	190	1.3	0.17	-	21.9	26.5	35.5	45.3	4.1	6.2	7.4	I-CE-01-20
19 S	0.59	20.94	4.50	3.57	63.67	1.31	2.76	0.59	0.65	0.018	1.95	56.8	17.1	5.9	10.9	22.6	1.70	2.0	317	140	195	1.2	0.14	-	23.1	28.3	36.6	47.8	4.5	5.8	8.2	I-CE-01-21
19 M	0.51	21.22	4.58	3.58	63.81	1.32	2.65	0.60	0.65	0.018	1.67	55.1	19.3	6.1	10.9	23.1	1.80	1.9	305	135	185	1.3	0.17	-	22.7	27.6	35.9	46.5	4.2	5.9	8.1	I-CE-01-22
21 S	0.54	21.25	4.57	3.58	63.83	1.33	2.54	0.60	0.65	0.018	1.87	55.3	19.2	6.1	10.9	23.0	1.65	2.1	314	130	180	1.2	0.14	-	21.9	28.5	36.4	45.9	4.0	6.5	7.6	I-CE-01-24
22 S	0.61	21.11	4.58	3.57	63.55	1.32	2.75	0.59	0.64	0.018	1.87	54.6	19.4	6.1	10.9	23.1	1.70	2.3	311	130	180	1.2	0.14	-	22.3	28.6	37.2	47.6	4.1	6.3	7.8	I-CE-01-25
22 M	0.46	21.29	4.69	3.63	63.43	1.34	2.75	0.59	0.64	0.017	1.72	51.9	21.9	6.3	11.0	23.6	1.65	2.0	305	135	185	1.1	0.14	-	22.2	28.4	36.5	48.4	4.3	6.2	7.7	I-CE-01-26
23 M	0.62	21.22	4.60	3.60	63.87	1.32	2.60	0.59	0.65	0.018	1.90	55.3	19.1	6.1	11.0	23.2	1.55	2.0	301	130	180	1.2	0.14	-	21.8	26.5	36.8	46.0	4.2	6.2	7.8	I-CE-01-28
24 S	0.51	21.03	4.54	3.56	63.46	1.30	2.72	0.59	0.64	0.018	1.91	55.2	18.7	6.0	10.8	22.8	1.65	2.0	305	130	180	1.2	0.14	-	22.8	28.3	37.2	47.2	4.3	6.2	8.1	I-CE-01-29
24 M	0.52	21.12	4.55	3.59	63.53	1.32	2.69	0.58	0.64	0.018	1.71	54.7	19.3	6.0	10.9	22.9	1.85	2.2	298	140	190	1.3	0.17	-	22.5	27.1	36.6	46.8	4.4	6.4	7.9	I-CE-01-30
25 M	0.62	20.98	4.52	3.58	63.46	1.33	2.71	0.60	0.63	0.019	1.80	55.7	18.1	5.9	10.9	22.7	2.00	2.2	295	135	185	1.4	0.20	-	21.8	26.7	36.1	45.7	4.1	5.9	8.2	I-CE-01-32
26 S	0.60	21.02	4.52	3.58	63.61	1.32	2.73	0.59	0.64	0.018	1.75	55.9	18.1	5.9	10.9	22.7	1.75	2.3	305	130	180	1.3	0.17	-	22.8	28.0	37.1	46.3	4.3	6.4	8.2	I-CE-01-33
26 M	0.51	21.15	4.59	3.57	63.60	1.32	2.74	0.60	0.64	0.019	1.73	54.4	19.6	6.1	10.9	23.1	1.70	2.2	298	135	185	1.2	0.14	-	22.3	26.5	36.2	45.7	4.4	6.7	7.8	I-CE-01-34
27 M	0.56	20.93	4.48	3.59	63.66	1.31	2.68	0.59	0.64	0.019	1.92	57.2	16.8	5.8	10.9	22.5	1.70	2.0	295	130	185	1.2	0.14	-	21.6	25.9	35.2	46.2	3.6	5.5	7.6	I-CE-01-35
28 S	0.48	20.89	4.50	3.58	63.64	1.32	2.78	0.60	0.64	0.018	2.00	57.0	16.9	5.9	10.9	22.6	1.65	2.1	308	130	185	1.1	0.14	-	23.1	28.2	38.3	47.6	3.8	6.6	8.2	I-CE-01-36
29 S	0.43	21.07	4.56	3.60	64.03	1.35	2.81	0.60	0.66	0.018	2.02	56.7	17.6	6.0	11.0	22.9	1.75	2.2	311	130	180	1.3	0.17	-	22.5	28.9	36.7	46.6	4.2	5.9	8.1	I-CE-01-38
30 S	0.61	21.02	4.49	3.57	63.63	1.32	2.71	0.59	0.65	0.018	1.75	56.3	17.8	5.9	10.9	22.6	1.75	2.2	305	130	180	1.3	0.17	-	22.4	28.5	36.6	47.4	4.0	6.3	8.0	I-CE-01-40
30 M	0.66	21.13	4.59	3.56	63.56	1.32	2.71	0.60	0.65	0.018	1.88	54.5	19.5	6.1	10.8	23.1	1.70	2.1	295	135	190	1.2	0.14	-	21.9	27.6	35.8	45.6	4.1	5.9	7.2	I-CE-01-41
31 S	0.46	21.01	4.55	3.56	63.63	1.33	2.77	0.60	0.65	0.018	1.91	55.8	18.1	6.0	10.8	22.9	1.65	2.3	301	130	185	1.2	0.14	-	22.1	28.2	35.2	46.4	4.3	6.4	8.2	I-CE-01-42
31 M	0.53	21.12	4.58	3.56	63.60	1.32	2.74	0.60	0.65	0.018	2.06	54.7	19.3	6.1	10.8	23.1	1.70	2.0	298	135	185	1.3	0.17	-	21.7	27.3	37.3	46.1	3.9	5.9	7.3	I-CE-01-43
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Avg	0.53	21.06	4.53	3.58	63.65	1.32	2.71	0.59	0.64	0.018	1.83	55.8	18.3	5.9	10.9	22.8	1.71	2.1	305	134	185	1.2	0.15	-	22.2	27.4	36.1	46.7	4.2	6.2	7.9	-
Min	0.39	20.79	4.36	3.55	63.43	1.29	2.54	0.58	0.63	0.017	1.55	51.9	15.6	5.5	10.8	21.9	1.55	1.9	295	130	180	1.1	0.14	-	20.2	24.7	34.3	45.3	3.6	5.5	7.2	-
Max	0.66	21.29	4.69	3.63	64.03	1.35	2.81	0.60	0.66	0.019	2.12	58.4	21.9	6.3	11.0	23.6	2.00	2.4	320	140	195	1.4	0.20	-	24.1	29.3	38.3	48.4	4.7	6.7	8.2	-
S.D	0.07	0.11	0.06	0.02	0.13	0.01	0.06	0.01	0.01	0.001	0.14	1.25	1.23	0.15	0.06	0.33	0.08	0.12	7.12	4.11	4.26	0.07	0.02	-	0.9	1.3	1.0	0.9	0.2	0.3	0.3	-

S : Silo M : Mill

مدیر کارخانه:

مدیرکنترل کیفی و آزمایشگاهها:

رئیس آزمایشگاهها:

کارشناس آزمایشگاه:

گزارش ماهانه کنترل کیفیت سیمان ممتازان کرمان

نوع سیمان: پرتلند پوزولانی ویژه (پ. پ. و)

شماره مدرک: **LA-F-023-02**

تاریخ: فروردین ۱۴۰۱

Day	IR	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	K_2O	Na_2O	Cl	LOSS	C3S	C2S	C3A	C4AF	C4AF +2C3A	F.CaO	Fineness: Sieve 90 mic	Fineness: Blaine (m^2/kg)	Setting time: INIT (min)	Setting time: FINAL (min)	Soundness: LEACHTELIER (mm)	Soundness: Auto Clave (%)	Compressive Strength (MPa): 1 DAY	Compressive Strength (MPa): 2 DAYS	Compressive Strength (MPa): 3 DAYS	Compressive Strength (MPa): 7 DAYS	Compressive Strength (MPa): 28 DAYS	Bend Strength MPa): 2 DAYS	Bend Strength MPa): 7 DAYS	Bend Strength MPa): 28 DAYS	Lab.Code
8 S	-	27.70	8.55	3.96	52.71	1.22	2.20	0.92	1.18	0.017	1.52	-	-	-	-	-	1.40	2.1	377	140	190	1.0	0.11	-	18.7	23.0	31.6	42.8	3.6	6.5	7.8	I-CE-01-02
17 S	-	28.15	8.81	3.96	51.84	1.19	2.13	0.93	1.18	0.017	1.76	-	-	-	-	-	1.40	1.8	382	135	185	1.1	0.14	-	17.9	23.8	33.4	42.6	3.5	6.2	7.6	I-CE-01-17
28 M	-	27.91	8.86	3.96	52.12	1.24	2.16	0.54	1.19	0.018	1.99	-	-	-	-	-	1.35	1.9	361	140	190	1.1	0.11	-	17.9	22.3	31.6	41.0	3.7	5.2	7.3	I-CE-01-37
29 M	-	28.43	8.89	3.95	51.08	1.22	2.12	0.95	1.18	0.018	2.14	-	-	-	-	-	1.50	2.0	364	135	185	1.1	0.14	-	17.2	21.6	30.9	42.3	3.8	5.8	7.2	I-CE-01-39
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Avg	-	28.05	8.78	3.96	51.94	1.22	2.15	0.84	1.18	0.018	1.85	-	-	-	-	-	1.41	2.0	371	138	188	1.1	0.13	-	17.9	22.7	31.9	42.2	3.7	5.9	7.5	-
Min	-	27.70	8.55	3.95	51.08	1.19	2.12	0.54	1.18	0.017	1.52	-	-	-	-	-	1.35	1.8	361	135	185	1.0	0.11	-	17.2	21.6	30.9	41.0	3.5	5.2	7.2	-
Max	-	28.43	8.89	3.96	52.71	1.24	2.20	0.95	1.19	0.018	2.14	-	-	-	-	-	1.50	2.1	382	140	190	1.1	0.14	-	18.7	23.8	33.4	42.8	3.8	6.5	7.8	-
S.D	-	0.31	0.16	0.00	0.68	0.02	0.04	0.20	0.00	0.001	0.27	-	-	-	-	-	0.06	0.13	10.10	2.89	2.89	0.05	0.02	-	0.6	0.9	1.1	0.8	0.1	0.6	0.3	-

S : Silo M : Mill

کارشناس آزمایشگاه: رئیس آزمایشگاهها: مدیرکنترل کیفی و آزمایشگاهها: ۱۴۰۱/۳/۱۱ مدیر کارخانه:

گزارش ماهانه کنترل کیفیت سیمان ممتازان کرمان

نوع سیمان: پرتلند نوع ۱ (پ ۱، ۴۲/۵)

شماره مدرک: LA-F-023-02

تاریخ: فروردین ۱۴۰۱ صفحه ۳ از ۳

Day	Chemical Compositions & Phases %																	Physical Test													Lab.Code
																		Fineness		Setting time		Soundness		Compressive Strength (MPa)					Bend Strength MPa)			
	IR	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	K_2O	Na_2O	Cl	LOSS	C3S	C2S	C3A	C4AF	C4AF +2C3A	F.CaO	Sieve 90 mic	Blaine (m^2/kg)	INIT (min)	FINAL (min)	LEACHTELIER (mm)	Auto Clave (%)	1 DAY	2 DAYS	3 DAYS	7 DAYS	28 DAYS	2 DAYS	7 DAYS	28 DAYS	
13 M	0.58	21.40	4.68	3.65	63.18	1.32	2.61	0.58	0.65	0.017	1.07	50.5	23.3	6.2	11.1	23.6	1.55	2.1	298	135	185	1.0	0.11	-	20.0	26.0	36.7	47.0	4.1	6.3	7.4	I-CE-01-12
16 S	0.53	21.18	4.47	3.60	63.24	1.31	2.71	0.59	0.66	0.017	0.96	53.6	20.3	5.8	11.0	22.5	1.70	2.0	305	130	185	1.2	0.14	-	23.1	28.2	37.6	46.9	4.6	6.7	7.6	I-CE-01-15
20 M	0.43	21.44	4.67	3.65	63.20	1.32	2.60	0.56	0.65	0.017	1.21	50.3	23.5	6.2	11.1	23.5	1.50	2.0	298	140	190	1.3	0.17	-	22.1	27.0	35.0	46.9	4.3	5.6	7.8	I-CE-01-23
23 S	0.38	20.94	4.63	3.66	63.47	1.35	2.68	0.60	0.65	0.017	1.10	55.3	18.3	6.1	11.1	23.3	1.50	2.2	298	130	180	1.2	0.14	-	22.1	27.8	35.8	47.4	4.1	6.1	7.9	I-CE-01-27
25 S	0.41	21.28	4.58	3.64	63.26	1.32	2.67	0.58	0.65	0.017	0.95	52.2	21.6	6.0	11.1	23.0	1.75	2.0	298	135	185	1.3	0.17	-	22.4	28.0	37.0	46.6	4.3	6.5	7.8	I-CE-01-31
Avg	0.47	21.25	4.61	3.64	63.27	1.32	2.65	0.58	0.65	0.017	1.06	52.4	21.4	6.0	11.1	23.2	1.60	2.1	299	134	185	1.2	0.15	-	21.9	27.4	36.4	47.0	4.3	6.2	7.7	-
Min	0.38	20.94	4.47	3.60	63.18	1.31	2.60	0.56	0.65	0.017	0.95	50.3	18.3	5.8	11.0	22.5	1.50	2.0	298	130	180	1.0	0.11	-	20.0	26.0	35.0	46.6	4.1	5.6	7.4	-
Max	0.58	21.44	4.68	3.66	63.47	1.35	2.71	0.60	0.66	0.017	1.21	55.3	23.5	6.2	11.1	23.6	1.75	2.2	305	140	190	1.3	0.17	-	23.1	28.2	37.6	47.4	4.6	6.7	7.9	-
S.D	0.09	0.20	0.09	0.02	0.12	0.02	0.05	0.01	0.00	0.000	0.11	2.10	2.15	0.19	0.07	0.45	0.12	0.09	3.13	4.18	3.54	0.12	0.03	-	1.2	0.9	1.0	0.3	0.2	0.4	0.2	-

S : Silo M : Mill

مدیر کارخانه: ۱۴۰۱/۳/۱۱ مدیرکنترل کیفی و آزمایشگاهها: رئیس آزمایشگاهها: کارشناس آزمایشگاه: