گزارش ماهانه کنترل کیفیت سیمان ممتازان کرمان

نوع سیمان: پرتلند نوع ۲ (پ ۲، ۴۲/۵)

شماره مدرک: LA-F-023-02

تاریخ: دی ۱۴۰۲

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	3 DAYS	28 DAYS	
3	S	0.56	21.12	4.68	3.75	63.17	1.28	2.75	0.58	0.66	0.018	1.58	52.0	21.3	6.1	11.4	23.5	1.80	0.8	317	130	180	1.2	0.14	-	21.6	27.4	35.5	48.2	4.3	5.1	7.8	I-CE-02-461
3	M	0.53	21.32	4.70	3.79	63.46	1.32	2.71	0.58	0.68	0.017	1.54	51.6	22.2	6.0	11.5	23.6	1.75	0.9	305	135	185	1.1	0.11	-	21.5	26.9	35.8	47.5	4.1	4.7	7.2	I-CE-02-462
5	S	0.53	21.25	4.69	3.75	63.09	1.28	2.67	0.57	0.66	0.017	1.75	50.9	22.6	6.1	11.4	23.6	1.65	0.9	314	125	175	1.1	0.11	-	21.5	27.2	36.3	48.6	4.1	4.7	8.2	I-CE-02-465
6	M	0.56	21.25	4.63	3.74	63.01	1.27	2.74	0.58	0.65	0.017	1.58	50.7	22.6	5.9	11.4	23.3	1.70	0.7	308	125	175	1.1	0.11	-	21.9	26.9	35.1	46.9	4.0	4.7	7.7	I-CE-02-468
7	S	0.64	21.25	4.63	3.74	63.17	1.28	2.69	0.57	0.66	0.017	1.46	51.5	22.0	5.9	11.4	23.3	1.65	0.7	311	125	180	1.1	0.11	-	20.8	26.4	34.8	47.5	4.2	4.9	8.3	I-CE-02-469
7	M	0.63	21.39	4.72	3.74	63.21	1.30	2.68	0.58	0.67	0.017	1.36	50.1	23.6	6.2	11.4	23.7	1.70	0.6	305	130	185	1.2	0.14	-	19.3	24.7	33.9	45.0	4.1	4.7	7.6	I-CE-02-470
8	S	0.60	21.32	4.74	3.48	63.65	1.51	2.77	0.69	0.75	0.018	-	52.4	21.6	6.7	10.6	23.9	1.75	1.1	311	130	180	1.3	0.17	-	19.7	24.2	33.8	45.6	3.6	4.4	7.8	I-CE-02-471
8	M	0.63	21.31	4.66	3.74	63.24	1.29	2.71	0.59	0.67	0.018	1.46	51.1	22.5	6.0	11.4	23.4	1.65	0.6	305	125	175	1.2	0.14	-	19.5	23.6	33.9	44.5	4.0	4.7	7.6	I-CE-02-472
10	S	0.54	20.86	4.53	3.72	63.13	1.28	2.82	0.58	0.67	0.017	1.67	54.7	18.6	5.7	11.3	22.7	1.70	0.7	314	130	180	1.1	0.14	-	22.2	27.1	37.3	47.9	3.9	5.1	7.9	I-CE-02-474
12	S	0.56	21.15	4.53	3.71	63.47	1.45	2.83	0.69	0.71	0.018	1.53	53.8	20.0	5.7	11.3	22.7	1.70	0.6	314	135	185	1.2	0.14	-	21.2	26.9	35.2	45.6	3.7	4.8	7.4	I-CE-02-478
12	M	0.65	21.48	4.68	3.77	63.60	1.48	2.66	0.69	0.72	0.017	1.61	51.2	22.9	6.0	11.5	23.5	1.75	0.7	305	140	190	1.1	0.11	-	21.4	26.5	36.1	47.2	3.8	4.8	7.8	I-CE-02-479
13	M	0.60	21.34	4.67	3.72	63.47	1.45	2.74	0.68	0.71	0.017	1.60	51.7	22.2	6.1	11.3	23.5	1.65	0.7	301	135	185	1.2	0.14	-	21.3	26.2	34.8	46.7	4.1	4.9	7.5	I-CE-02-481
14	S	0.69	21.25	4.63	3.73	63.46	1.45	2.72	0.68	0.71	0.017	1.39	52.6	21.2	6.0	11.4	23.3	1.60	0.7	317	130	180	1.2	0.14	-	21.6	27.1	34.5	47.6	4.2	5.0	7.9	I-CE-02-482
15	S	0.66	21.32	4.62	3.73	63.44	1.46	2.69	0.68	0.71	0.017	1.47	52.2	21.8	5.9	11.4	23.2	1.70	0.5	320	125	175	1.1	0.14	-	21.1	26.2	34.6	46.4	3.9	4.9	7.4	I-CE-02-484
16	M	0.55	21.24	4.62	3.76	63.40	1.44	2.62	0.67	0.72	0.017	1.43	52.8	21.1	5.9	11.4	23.2	1.55	0.7	305	125	175	1.2	0.14	-	19.2	23.7	32.6	43.3	3.4	4.6	8.1	I-CE-02-486
17	S	0.52	21.30	4.65	3.74	63.52	1.48	2.70	0.68	0.71	0.018	1.37	52.4	21.5	6.0	11.4	23.4	1.65	0.8	317	130	180	1.2	0.14	-	19.6	24.5	33.7	45.5	3.5	4.9	7.6	I-CE-02-487
19	S	0.50	21.22	4.64	3.76	63.50	1.48	2.72	0.67	0.71	0.017	1.57	52.9	20.9	5.9	11.4	23.3	1.70	0.8	314	135	185	1.1	0.11	-	21.4	26.8	35.8	46.9	4.2	5.0	8.2	I-CE-02-491
19	M	0.55	21.31	4.65	3.76	63.36	1.49	2.72	0.71	0.73	0.020	1.50	51.6	22.2	6.0	11.4	23.4	1.60	0.7	305	140	190	1.0	0.11	-	21.7	27.2	36.5	45.5	4.0	4.9	7.7	I-CE-02-492
20	M	0.57	21.27	4.62	3.80	63.38	1.51	2.81	0.69	0.73	0.017	1.32	51.9	21.8	5.8	11.6	23.2	1.60	0.9	301	135	190	1.2	0.14	-	21.0	25.6	33.2	44.4	3.7	4.5	7.3	I-CE-02-494
21	S	0.55	21.24	4.62	3.79	63.57	1.51	2.77	0.68	0.72	0.018	1.25	53.0	20.9	5.8	11.5	23.2	1.70	0.7	320	130	180	1.1	0.11	-	22.5	27.6	36.5	48.7	4.2	5.3	8.2	I-CE-02-495
24	S	0.50	21.36	4.66	3.74	63.49	1.53	2.67	0.69	0.73	0.019	1.36	51.9	22.1	6.0	11.4	23.4	1.90	0.8	314	130	175	1.1	0.11	-	21.6	26.8	35.7	47.8	3.7	5.0	8.2	I-CE-02-500
24	M	0.54	21.45	4.70	3.71	63.47	1.46	2.56	0.68	0.71	0.018	1.42	51.2	22.9	6.2	11.3	23.6	1.75	0.7	305	130	180	1.2	0.14	-	21.3	25.9	33.4	46.2	4.0	4.8	7.4	I-CE-02-501
25	M	0.45	21.28	4.62	3.75	63.28	1.45	2.73	0.69	0.72	0.018	1.51	51.7	22.0	5.9	11.4	23.2	1.65	0.7	308	125	175	1.1	0.11	-	21.6	26.5	34.2	46.4	4.3	4.8	7.4	I-CE-02-503
26	S	0.57	21.30	4.65	3.75	63.41	1.49	2.70	0.69	0.71	0.018	1.40	52.0	21.9	6.0	11.4	23.4	1.75	1.0	311	125	175	1.2	0.14	-	20.9	24.7	32.4	44.3	4.2	4.7	7.4	I-CE-02-504
26	M	0.59	21.40	4.68	3.71	63.51	1.47	2.64	0.68	0.72	0.017	1.50	51.6	22.4	6.1	11.3	23.5	1.70	0.8	305	120	170	1.0	0.11	-	21.7	26.2	34.8	45.5	4.3	4.9	8.0	I-CE-02-505
28	S	0.54	21.04	4.56	3.73	63.26	1.45	2.69	0.68	0.71	0.018	1.51	54.0	19.6	5.8	11.4	22.9	1.75	0.8	320	130	180	1.1	0.14	-	22.1	26.3	35.6	47.2	4.1	4.7	8.2	I-CE-02-508
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Avg		0.57	21.27	4.65	3.74	63.37	1.42	2.71	0.65	0.70	0.018	1.49	52.1	21.7	6.0	11.4	23.3	1.69	0.8	310	130	180	1.1	0.13	-	21.1	26.1	34.8	46.4	4.0	4.8	7.8	-
Min		0.45	20.86	4.53	3.48	63.01	1.27	2.56	0.57	0.65	0.017	1.25	50.1	18.6	5.7	10.6	22.7	1.55	0.5	301	120	170	1.0	0.11	-	19.2	23.6	32.4	43.3	3.4	4.4	7.2	-
Max		0.69	21.48	4.74	3.80	63.65	1.53	2.83	0.71	0.75	0.020	1.75	54.7	23.6	6.7	11.6	23.9	1.90	1.1	320	140	190	1.3	0.17	-	22.5	27.6	37.3	48.7	4.3	5.3	8.3	-
S.D		0.06	0.13	0.05	0.06	0.17	0.09	0.06	0.05	0.03	0.001	0.11	1.04	1.09	0.19	0.17	0.28	0.07	0.13	5.98	5.00	5.38	0.07	0.02	-	0.9	1.2	1.3	1.4	0.3	0.2	0.3	-

S :Silo M : Mill

مدیر کارخانه:

مدیرکنترل کیفی و آزمایشگاهها:

رئیس آزمایشگاههای:

کارشناس آزمایشگاه:

گزارش ماهانه کنترل کیفیت سیمان ممتازان کرمان

نوع سیمان: پرتلند نوع ۲ با ۲/۵ درصد افزودنی سنگ آهک(پ ۲، ۴۲/۵)

شماره مدرک: LA-F-023-02

تاریخ: دی ۱۴۰۲ — صفحه ۲ از ۲

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	3 DAYS	28 DAYS	
1	S	0.60	20.85	4.69	3.70	63.10	1.29	2.85	0.57	0.65	0.017	2.08	53.5	19.4	6.2	11.3	23.6	1.75	1.3	314	130	180	1.3	0.17	-	19.5	24.6	35.4	45.2	4.1	4.6	7.5	I-CE-02-458
1	M	0.58	20.95	4.70	3.71	63.31	1.30	2.84	0.57	0.65	0.018	2.22	53.5	19.7	6.2	11.3	23.6	1.80	1.1	301	135	185	1.3	0.17	-	19.8	25.8	36.7	47.6	3.9	4.6	7.9	I-CE-02-459
2	M	0.52	20.95	4.71	3.73	63.19	1.28	2.77	0.57	0.66	0.017	2.18	53.2	20.0	6.2	11.4	23.7	1.80	1.3	301	140	190	1.3	0.17	-	18.3	23.1	33.7	44.7	3.7	4.6	7.3	I-CE-02-460
4	S	0.59	20.88	4.68	3.72	63.28	1.29	2.84	0.58	0.66	0.017	2.24	54.1	19.1	6.1	11.3	23.5	1.70	1.4	311	120	175	1.3	0.17	-	20.8	25.5	34.3	46.4	3.8	4.6	7.4	I-CE-02-463
4	M	0.53	21.16	4.69	3.71	63.14	1.26	2.65	0.56	0.66	0.017	2.11	51.9	21.5	6.2	11.3	23.6	1.65	1.3	298	125	175	1.2	0.14	-	19.5	24.6	34.1	44.3	3.9	4.4	7.2	I-CE-02-464
5	M	0.59	20.93	4.59	3.69	63.16	1.25	2.79	0.58	0.66	0.018	2.19	54.0	19.3	5.9	11.2	23.1	1.70	1.1	301	135	185	1.2	0.14	-	19.7	24.5	33.4	45.3	3.6	4.6	7.7	I-CE-02-466
6	S	0.49	20.90	4.61	3.71	63.05	1.23	2.66	0.58	0.65	0.018	2.06	54.0	19.2	5.9	11.3	23.2	1.75	1.2	305	130	180	1.3	0.14	-	20.4	26.7	34.9	45.8	3.9	4.5	7.8	I-CE-02-467
9	M	0.54	21.00	4.60	3.70	62.96	1.26	2.76	0.58	0.66	0.017	2.27	52.6	20.5	5.9	11.3	23.1	1.70	0.9	301	125	180	1.1	0.14	-	20.2	25.4	33.6	46.0	4.0	4.5	7.4	I-CE-02-473
10	M	0.50	20.96	4.62	3.72	63.42	1.47	2.81	0.67	0.72	0.017	2.15	54.5	19.0	5.9	11.3	23.2	1.75	0.9	305	135	190	1.3	0.17	-	20.4	25.3	34.5	45.7	3.8	4.7	7.6	I-CE-02-475
11	S	0.51	20.87	4.54	3.70	63.25	1.45	2.82	0.67	0.71	0.017	2.21	55.0	18.3	5.8	11.3	22.8	1.70	0.8	305	130	180	1.3	0.17	-	19.6	24.7	34.3	44.6	3.6	4.5	7.2	I-CE-02-476
11	M	0.57	21.10	4.65	3.70	63.48	1.46	2.77	0.68	0.72	0.017	2.25	53.6	20.0	6.1	11.3	23.4	1.65	0.9	301	135	185	1.2	0.14	-	20.6	25.5	35.4	46.3	4.0	4.8	7.3	I-CE-02-477
13	S	0.57	20.92	4.58	3.71	63.66	1.46	2.90	0.68	0.72	0.017	2.24	55.8	17.9	5.9	11.3	23.0	1.70	0.9	311	120	175	1.2	0.14	-	20.9	26.0	33.9	45.5	4.0	4.8	7.2	I-CE-02-480
14	M	0.50	21.01	4.61	3.71	63.48	1.46	2.78	0.67	0.71	0.017	2.37	54.5	19.1	5.9	11.3	23.2	1.65	1.0	298	130	185	1.3	0.17	-	19.1	23.2	32.5	44.9	3.5	4.4	7.5	I-CE-02-483
15	M	0.58	20.88	4.56	3.68	63.08	1.42	2.72	0.68	0.67	0.017	2.32	54.5	18.8	5.9	11.2	22.9	1.65	0.9	305	130	180	1.3	0.14	-	18.8	23.2	32.1	42.7	3.7	4.5	7.7	I-CE-02-485
17	M	0.53	21.02	4.59	3.69	63.25	1.46	2.77	0.68	0.71	0.018	2.28	53.7	19.7	5.9	11.2	23.1	1.85	0.8	301	135	185	1.3	0.17	-	18.5	22.9	33.0	42.8	3.3	4.2	7.2	I-CE-02-488
18	S	0.54	20.86	4.59	3.72	63.49	1.46	2.88	0.68	0.72	0.017	2.27	55.6	17.9	5.9	11.3	23.1	1.60	1.5	301	130	180	1.2	0.14	-	16.4	22.3	31.9	43.8	3.6	4.2	7.9	I-CE-02-489
18	M	0.55	20.92	4.57	3.71	63.45	1.46	2.92	0.69	0.72	0.017	2.10	55.0	18.5	5.8	11.3	23.0	1.70	1.7	292	125	175	1.3	0.17	-	15.4	21.1	31.6	42.7	3.1	3.8	7.6	I-CE-02-490
20	S	0.66	20.86	4.61	3.71	63.43	1.50	2.89	0.68	0.71	0.017	2.32	55.2	18.2	5.9	11.3	23.2	1.65	1.7	301	135	185	1.2	0.14	-	19.1	24.4	32.5	44.3	3.6	4.3	7.2	I-CE-02-493
21	M	0.59	20.96	4.57	3.70	63.56	1.51	2.75	0.69	0.72	0.018	2.01	55.6	18.1	5.9	11.3	23.0	1.75	1.5	295	135	185	1.2	0.14	-	18.1	24.3	32.3	43.7	3.3	4.4	7.5	I-CE-02-496
22	S	0.58	20.72	4.39	3.41	63.77	1.51	2.85	0.70	0.75	0.020	2.15	59.6	14.4	5.9	10.4	22.1	1.80	1.4	308	125	175	1.2	0.14	-	19.0	23.3	32.4	43.8	3.5	4.2	7.2	I-CE-02-497
22	M	0.53	20.95	4.57	3.67	63.36	1.50	2.72	0.70	0.71	0.020	2.20	55.0	18.6	5.9	11.2	23.0	1.75	1.6	289	135	185	1.3	0.17	-	18.6	23.2	31.9	42.6	3.4	4.1	7.1	I-CE-02-498
23	M	0.57	20.94	4.52	3.66	63.52	1.50	2.75	0.68	0.71	0.017	2.26	56.0	17.8	5.8	11.1	22.7	1.80	1.5	295	125	175	1.2	0.14	-	18.4	23.1	31.9	43.4	3.3	4.4	7.6	I-CE-02-499
25	S	0.49	20.80	4.52	3.69	63.53	1.47	2.86	0.68	0.72	0.017	2.20	56.8	16.8	5.7	11.2	22.7	1.82	1.4	298	130	180	1.2	0.14	-	18.8	22.7	30.7	42.8	3.2	4.1	7.2	I-CE-02-502
27	S	0.62	20.94	4.62	3.69	63.50	1.45	2.90	0.69	0.72	0.017	2.27	54.8	18.7	6.0	11.2	23.2	1.70	1.6	301	130	180	1.3	0.17	-	18.7	24.2	32.7	44.2	3.8	4.4	7.3	I-CE-02-506
27	M	0.52	21.10	4.68	3.73	63.42	1.47	2.87	0.68	0.71	0.017	2.13	52.9	20.6	6.1	11.4	23.5	1.75	1.4	298	130	185	1.2	0.14	-	19.4	23.9	32.3	45.3	3.6	4.3	8.1	I-CE-02-507
28	M	0.61	21.00	4.59	3.70	63.69	1.47	2.78	0.68	0.73	0.017	2.15	55.6	18.2	5.9	11.3	23.1	1.70	1.6	292	135	185	1.2	0.14	-	19.2	22.8	33.9	43.3	3.8	4.6	7.4	I-CE-02-509
29	S	0.59	20.95	4.61	3.71	63.77	1.46	2.81	0.69	0.72	0.017	2.24	56.1	17.7	5.9	11.3	23.2	1.80	1.8	305	135	185	1.3	0.17	-	17.8	22.1	30.4	42.6	3.1	4.0	7.1	I-CE-02-510
29	M	0.55	21.06	4.57	3.69	63.66	1.46	2.69	0.69	0.72	0.017	2.24	55.5	18.5	5.9	11.2	23.0	1.70	1.7	292	140	190	1.3	0.17	-	18.0	22.4	31.3	42.7	3.5	4.3	7.2	I-CE-02-511
30	M	0.54	21.09	4.63	3.69	63.47	1.46	2.71	0.69	0.71	0.017	2.35	54.0	19.7	6.0	11.2	23.3	1.80	1.6	295	135	185	1.3	0.17	-	18.5	22.5	31.8	42.8	3.9	4.4	7.3	I-CE-02-512
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Avg		0.56	20.95	4.60	3.69	63.39	1.41	2.80	0.65	0.70	0.017	2.21	54.7	18.8	5.9	11.2	23.1	1.73	1.3	301	131	182	1.3	0.15	-	19.0	23.9	33.1	44.3	3.6	4.4	7.4	-
Min		0.49	20.72	4.39	3.41	62.96	1.23	2.65	0.56	0.65	0.017	2.01	51.9	14.4	5.7	10.4	22.1	1.60	0.8	289	120	175	1.1	0.14	-	15.4	21.1	30.4	42.6	3.1	3.8	7.1	-
Max		0.66	21.16	4.71	3.73	63.77	1.51	2.92	0.70	0.75	0.020	2.37	59.6	21.5	6.2	11.4	23.7	1.85	1.8	314	140	190	1.3	0.17	-	20.9	26.7	36.7	47.6	4.1	4.8	8.1	-
S.D		0.04	0.10	0.07	0.06	0.22	0.09	0.07	0.05	0.03	0.001	0.09	1.49	1.32	0.12	0.17	0.34	0.06	0.31	6.05	5.24	4.73	0.06	0.02	-	1.2	1.4	1.5	1.4	0.3	0.2	0.3	-

S : Silo M : Mill

کارشناس آزمایشگاه:

رئیس آزمایشگاهها: سعید نایبی

مدیرکنترل کیفی و آزمایشگاهها: امیری ۱۴۰۲/۱۲/۲۵

مدیر کارخانه: ۱۴۰۲/۱۲/۲۸

آزمایشگاه سیمان ممتازان کرمان