

گزارش ماهانه کنترل کیفیت سیمان ممتازان کرمان
 نوع سیمان: پرتلند، پوزولانی ویژه



شماره مدرک: LA-F-023-02

صفحه ۲ از ۳

تاریخ: مرداد ۱۴۰۰

| Day | Chemical Compositions & Phases % | | | | | | | | | | | | | | | | Physical Test | | | | | | | | | | | Lab.Code | | | | |
|------|----------------------------------|------------------|--------------------------------|--------------------------------|-------|------|-----------------|------------------|-------------------|-------|------|-----|-----|-----|------|-----------|---------------|--------------|------------------------------|--------------|-------------|------------------|----------------|--|--------|--------|--------|----------|-------------------------------------|--------|--------|-------------|
| | IR | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | CaO | MgO | SO ₃ | K ₂ O | Na ₂ O | Cl | LOSS | C3S | C2S | C3A | C4AF | C4AF+ZC3A | F.CaO | Fineness | | Setting time | | Soundness | | Compressive Strength (kg/cm ²) | | | | | Bend Strength (kg/cm ²) | | | |
| | | | | | | | | | | | | | | | | | | Sieve 90 mic | Blaine (cm ² /gr) | INIT (min) | FINAL (min) | LEACHTERIER (mm) | Auto Clave (%) | 1 DAY | 2 DAYS | 3 DAYS | 7 DAYS | | 28 DAYS | 2 DAYS | 7 DAYS | 28 DAYS |
| 1 S | - | 28.56 | 9.01 | 3.99 | 51.15 | 1.27 | 2.12 | 0.93 | 1.29 | 0.018 | 1.63 | - | - | - | - | - | 1.70 | 1.2 | 3430 | 140 | 185 | 1.2 | 0.14 | - | 187 | 222 | 323 | 426 | 43 | 59 | 70 | I-CE-00-195 |
| 3 S | - | 28.86 | 9.20 | 4.08 | 50.48 | 1.28 | 2.12 | 0.92 | 1.23 | 0.018 | 1.74 | - | - | - | - | - | 1.50 | 1.2 | 3099 | 140 | 190 | 1.1 | 0.11 | - | 180 | 228 | 324 | 423 | 38 | 54 | 78 | I-CE-00-198 |
| 5 S | - | 27.97 | 8.68 | 4.02 | 51.95 | 1.27 | 2.14 | 0.90 | 1.27 | 0.018 | 1.74 | - | - | - | - | - | 1.65 | 1.5 | 3670 | 140 | 190 | 1.1 | 0.14 | - | 194 | 237 | 327 | 399 | 41 | 60 | 78 | I-CE-00-202 |
| 11 S | - | 27.83 | 8.60 | 3.96 | 52.42 | 1.26 | 2.18 | 0.90 | 1.27 | 0.018 | 1.55 | - | - | - | - | - | 1.65 | 1.2 | 3690 | 135 | 185 | 1.1 | 0.11 | - | 192 | 223 | 325 | 418 | 41 | 64 | 79 | I-CE-00-212 |
| 11 M | - | 28.88 | 9.16 | 4.00 | 50.95 | 1.25 | 2.09 | 0.93 | 1.28 | 0.019 | 1.43 | - | - | - | - | - | 1.80 | 1.6 | 3530 | 140 | 195 | 1.3 | 0.17 | - | 176 | 217 | 295 | 401 | 40 | 59 | 72 | I-CE-00-213 |
| 12 M | - | 28.88 | 9.10 | 3.99 | 51.04 | 1.25 | 2.12 | 0.96 | 1.28 | 0.020 | 1.34 | - | - | - | - | - | 1.70 | 1.4 | 3560 | 135 | 185 | 1.1 | 0.14 | - | 173 | 212 | 292 | 419 | 41 | 67 | 71 | I-CE-00-215 |
| 15 S | - | 28.85 | 9.12 | 4.05 | 50.55 | 1.27 | 2.15 | 0.93 | 1.29 | 0.018 | 1.74 | - | - | - | - | - | 1.60 | 1.3 | 3640 | 135 | 185 | 1.1 | 0.14 | - | 185 | 232 | 324 | 413 | 42 | 64 | 75 | I-CE-00-220 |
| 17 S | - | 27.21 | 8.16 | 3.91 | 53.25 | 1.26 | 2.25 | 0.90 | 1.25 | 0.018 | 1.77 | - | - | - | - | - | 1.70 | 1.3 | 3560 | 140 | 190 | 1.2 | 0.14 | - | 186 | 225 | 315 | 426 | 38 | 60 | 75 | I-CE-00-223 |
| 19 S | - | 27.45 | 8.31 | 3.93 | 52.65 | 1.26 | 2.19 | 0.89 | 1.26 | 0.018 | 2.03 | - | - | - | - | - | 1.75 | 1.4 | 3610 | 130 | 185 | 1.3 | 0.17 | - | 183 | 236 | 316 | 405 | 40 | 58 | 74 | I-CE-00-227 |
| 20 M | - | 27.92 | 8.53 | 3.95 | 52.20 | 1.27 | 2.15 | 0.91 | 1.26 | 0.017 | 1.77 | - | - | - | - | - | 1.50 | 1.3 | 3510 | 135 | 185 | 1.1 | 0.11 | - | 178 | 225 | 313 | 414 | 37 | 57 | 74 | I-CE-00-230 |
| 21 M | - | 28.99 | 9.22 | 4.00 | 50.55 | 1.23 | 2.07 | 0.91 | 1.27 | 0.017 | 1.69 | - | - | - | - | - | 1.40 | 1.4 | 3590 | 135 | 190 | 1.0 | 0.11 | - | 169 | 206 | 304 | 393 | 31 | 56 | 74 | I-CE-00-233 |
| 24 S | - | 28.72 | 9.06 | 3.98 | 50.90 | 1.23 | 2.13 | 0.91 | 1.28 | 0.017 | 1.75 | - | - | - | - | - | 1.50 | 1.4 | 3740 | 130 | 180 | 1.1 | 0.14 | - | 184 | 232 | 331 | 426 | 39 | 61 | 78 | I-CE-00-236 |
| 27 M | - | 28.78 | 9.01 | 3.99 | 50.94 | 1.25 | 2.13 | 0.93 | 1.28 | 0.017 | 1.64 | - | - | - | - | - | 1.50 | 1.1 | 3560 | 140 | 190 | 1.1 | 0.11 | - | 186 | 220 | 304 | 409 | 39 | 58 | 71 | I-CE-00-243 |
| 31 S | - | 27.79 | 8.51 | 3.94 | 52.51 | 1.22 | 2.20 | 0.89 | 1.26 | 0.017 | 1.64 | - | - | - | - | - | 1.50 | 1.2 | 3640 | 135 | 185 | 1.0 | 0.11 | - | 181 | 227 | 325 | 417 | 41 | 57 | 74 | I-CE-00-245 |
| Avg | - | 28.38 | 8.86 | 3.99 | 51.47 | 1.26 | 2.14 | 0.92 | 1.27 | 0.018 | 1.68 | - | - | - | - | - | 1.60 | 1.3 | 3601 | 136 | 187 | 1.1 | 0.13 | - | 182 | 225 | 316 | 414 | 39 | 58 | 75 | - |
| Min | - | 27.21 | 8.16 | 3.91 | 50.48 | 1.23 | 2.07 | 0.89 | 1.25 | 0.017 | 1.34 | - | - | - | - | - | 1.40 | 1.1 | 3430 | 130 | 180 | 1.0 | 0.11 | - | 169 | 206 | 292 | 393 | 31 | 50 | 70 | - |
| Max | - | 28.99 | 9.22 | 4.08 | 53.25 | 1.28 | 2.25 | 0.96 | 1.29 | 0.020 | 2.03 | - | - | - | - | - | 1.80 | 1.6 | 3740 | 140 | 195 | 1.3 | 0.17 | - | 194 | 237 | 331 | 426 | 43 | 64 | 79 | - |
| S.D | - | 0.62 | 0.36 | 0.05 | 0.91 | 0.02 | 0.05 | 0.02 | 0.01 | 0.001 | 0.17 | - | - | - | - | - | 0.12 | 0.14 | 89.56 | 3.63 | 3.78 | 0.09 | 0.02 | - | 6.90 | 9.23 | 12.03 | 10.75 | 3.63 | 3.63 | 2.90 | - |

S : Silo M : Mill

مدیر کنترل کیفیت و آزمایشگاهها:
 حمیدرضا ایرانشاهی
 ۱۴۰۰/۰۸/۳۱

رئیس آزمایشگاهها:
 آزمایشگاه سیمان ممتازان کرمان

کارشناس آزمایشگاه:

مهندس

