

Českomoravský cement, a.s.
Mokrá 359
664 04 Mokrá-Horákov

Statistické hodnocení kvality cementu dle EN 197-1

Cement: CEM III/B 32,5 L - LH/SR

Období: Od: **01.01.2021**

Závod: **Mokrá**

Do: **31.01.2021**

Mechanické a fyzikální vlastnosti

| Datum | Měrný povrch | Normální konzistence | Počátek tuhnutí | Konec tuhnutí | Objemová stálost | Pevnost v tlaku | | Pevnost v ohybu | |
|---------------|------------------------|----------------------|-----------------|---------------|------------------|-----------------|-------------|-----------------|------------|
| | | | | | | 7 dní | 28 dní | 7 dní | 28 dní |
| Jednotka | [m ² /kg] | [%] | [min] | [min] | [mm] | [MPa] | [MPa] | [MPa] | [MPa] |
| 05.01.2021 | 480 | 32.4 | 282 | 360 | 0.5 | 20.7 | 48.9 | 4.8 | 11.0 |
| 05.01.2021 | 467 | 32.2 | 256 | 359 | 1.0 | 17.6 | 46.5 | 4.4 | 9.8 |
| 12.01.2021 | 444 | 30.8 | 283 | 360 | 1.0 | 19.2 | 49.4 | 4.8 | 9.8 |
| 15.01.2021 | 449 | 31.8 | 290 | 368 | 0.5 | 21.5 | 48.7 | 5.3 | 9.3 |
| 19.01.2021 | 464 | 32.0 | 279 | 358 | 1.0 | 21.4 | 46.9 | 5.1 | 8.8 |
| 20.01.2021 | 471 | 32.4 | 298 | 375 | 0.5 | 16.8 | 43.4 | 3.9 | 9.6 |
| 28.01.2021 | 465 | 32.0 | 268 | 356 | 1.0 | 16.4 | 45.7 | 6.2 | 9.6 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Průměr | 463 | 31.9 | 279 | 362 | 0.8 | 19.1 | 47.1 | 4.9 | 9.7 |
| Max | 480 | 32.4 | 298 | 375 | 1.0 | 21.5 | 49.4 | 6.2 | 11.0 |
| Min | 444 | 30.8 | 256 | 356 | 0.5 | 16.4 | 43.4 | 3.9 | 8.8 |
| Std | 12 | 0.5 | 13 | 6 | 0.2 | 2.0 | 1.9 | 0.7 | 0.6 |
| Četnost | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Norma-min | | | 75 | | | 12.0 | 32.5 | | |
| Norma-max | | | | | 10 | | 52.5 | | |

Chemické vlastnosti

| Datum | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | CaO | MgO | K ₂ O | Na ₂ O | Obsah siřanů (jako SO ₃) | Na ₂ O ekv. | Obsah Cl | Ztráta žháním | Nerozpuštěný zbytek | Vodorozpuštěný chrom (Cr ⁶⁺) | C ₃ A ve sílku |
|---------------|------------------|--------------------------------|--------------------------------|--------------|-------------|------------------|-------------------|--------------------------------------|------------------------|--------------|---------------|---------------------|--|---------------------------|
| Jednotka | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [ppm] | [%] |
| 05.01.2021 | 30.27 | 6.24 | 1.34 | 48.45 | 5.63 | 0.60 | 0.29 | 2.15 | 0.68 | 0.030 | --- | --- | --- | 6.42 |
| 05.01.2021 | 31.87 | 6.77 | 1.39 | 47.38 | 5.96 | 0.56 | 0.33 | 2.01 | 0.70 | 0.029 | 0.28 | 0.15 | --- | 6.42 |
| 12.01.2021 | 30.61 | 6.58 | 1.61 | 48.89 | 5.45 | 0.55 | 0.32 | 2.05 | 0.68 | 0.034 | --- | --- | --- | 6.81 |
| 15.01.2021 | 30.41 | 6.53 | 1.63 | 48.63 | 5.34 | 0.55 | 0.31 | 2.01 | 0.67 | 0.032 | 0.97 | 0.36 | --- | 6.81 |
| 19.01.2021 | 30.08 | 6.41 | 1.82 | 49.32 | 4.96 | 0.59 | 0.33 | 2.13 | 0.72 | 0.030 | --- | --- | --- | 6.81 |
| 20.01.2021 | 32.46 | 6.93 | 1.31 | 46.24 | 5.87 | 0.56 | 0.36 | 1.95 | 0.73 | 0.028 | --- | --- | --- | 6.81 |
| 28.01.2021 | 32.79 | 7.00 | 1.10 | 45.14 | 6.30 | 0.53 | 0.37 | 2.01 | 0.72 | 0.028 | --- | --- | --- | 6.25 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Průměr | 31.21 | 6.64 | 1.46 | 47.72 | 5.64 | 0.56 | 0.33 | 2.04 | 0.70 | 0.030 | 0.63 | 0.26 | --- | 6.62 |
| Max | 32.79 | 7.00 | 1.82 | 49.32 | 6.30 | 0.60 | 0.37 | 2.15 | 0.73 | 0.034 | 0.97 | 0.36 | --- | 6.81 |
| Min | 30.08 | 6.24 | 1.10 | 45.14 | 4.96 | 0.53 | 0.29 | 1.95 | 0.67 | 0.028 | 0.28 | 0.15 | --- | 6.25 |
| Std | 1.05 | 0.26 | 0.22 | 1.43 | 0.41 | 0.02 | 0.03 | 0.07 | 0.02 | 0.002 | 0.35 | 0.11 | --- | 0.23 |
| Četnost | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 0 | 7 |
| Norma-min | | | | | | | | | | | | | | |
| Norma-max | | | | | | | | 4.0 | | 0.10 | 5.0 | 5.0 | | |

V Mokré dne : 10.03.2021

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