

Statistické hodnocení kvality cementu dle EN 197-1

Cement: CEM II/B-S 32,5 R

Období: Od: **01.11.2024**

Závod: **Mokrá**

Do: **30.11.2024**

Mechanické a fyzikální vlastnosti

| Datum | Měrný povrch [m ² /kg] | Normální konzistence [%] | Počátek tuhnutí [min] | Konec tuhnutí [min] | Objemová stálost [mm] | Pevnost v tlaku | | Pevnost v ohybu | |
|---------------|--------------------------------------|--------------------------------|--------------------------|------------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | 2 dny [MPa] | 28 dní [MPa] | 2 dny [MPa] | 28 dní [MPa] |
| Jednotka | [m ² /kg] | [%] | [min] | [min] | [mm] | [MPa] | [MPa] | [MPa] | [MPa] |
| 04.11.2024 | 444 | 28,4 | 228 | 315 | 1,0 | 17,5 | 50,6 | 4,0 | 9,0 |
| 06.11.2024 | 416 | 28,8 | 234 | 312 | 0,5 | 17,8 | 49,3 | 3,9 | 8,3 |
| 11.11.2024 | 419 | 28,4 | 217 | 284 | 0,5 | 18,1 | 51,4 | 4,2 | 10,1 |
| 14.11.2024 | 400 | 28,6 | 216 | 293 | 1,0 | 18,0 | 51,2 | 4,1 | 9,2 |
| 18.11.2024 | 414 | 28,4 | 219 | 289 | 0,5 | 16,7 | 51,1 | 3,9 | 9,4 |
| 19.11.2024 | 411 | 27,6 | 229 | 291 | 1,0 | 17,1 | 51,0 | 4,1 | 9,6 |
| 25.11.2024 | 417 | 28,4 | 242 | 315 | 1,0 | 17,5 | 52,4 | 4,0 | 9,2 |
| 26.11.2024 | 415 | 28,4 | 229 | 309 | 1,0 | 17,9 | 51,5 | 4,2 | 9,2 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Průměr | 417 | 28,4 | 227 | 301 | 0,8 | 17,6 | 51,1 | 4,1 | 9,2 |
| Max | 444 | 28,8 | 242 | 315 | 1,0 | 18,1 | 52,4 | 4,2 | 10,1 |
| Min | 400 | 27,6 | 216 | 284 | 0,5 | 16,7 | 49,3 | 3,9 | 8,3 |
| Std | 12 | 0,3 | 8 | 12 | 0,2 | 0,4 | 0,8 | 0,1 | 0,5 |
| Četnost | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Norma-min | | | 75 | | | 10,0 | 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 síranů (jako SO ₃) | Na ₂ O ekv. | Obsah Cl | Ztráta žháním | Nerozpuštěný zbytek | Vodorozpuštěný chrom (Cr ⁶⁺) | C ₃ A ve slínku |
|---------------|------------------|--------------------------------|--------------------------------|--------------|-------------|------------------|-------------------|---|------------------------|--------------|---------------|------------------------|---|----------------------------|
| Jednotka | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [%] | [ppm] | [%] |
| 04.11.2024 | 23,47 | 5,44 | 2,40 | 57,08 | 2,76 | 0,73 | 0,23 | 2,60 | 0,71 | 0,078 | --- | --- | --- | 6,93 |
| 06.11.2024 | 24,26 | 5,63 | 2,28 | 55,42 | 2,82 | 0,73 | 0,24 | 2,52 | 0,72 | 0,075 | --- | --- | --- | 6,93 |
| 11.11.2024 | 23,80 | 5,62 | 2,32 | 55,63 | 2,88 | 0,72 | 0,23 | 2,61 | 0,70 | 0,062 | --- | --- | --- | 7,54 |
| 14.11.2024 | 23,91 | 5,66 | 2,38 | 55,83 | 3,46 | 0,71 | 0,22 | 2,45 | 0,69 | 0,059 | --- | --- | --- | 7,54 |
| 18.11.2024 | 24,92 | 5,48 | 2,37 | 55,32 | 2,80 | 0,68 | 0,24 | 2,47 | 0,69 | 0,059 | --- | --- | --- | 7,53 |
| 19.11.2024 | 24,34 | 5,55 | 2,34 | 55,31 | 2,82 | 0,69 | 0,24 | 2,41 | 0,69 | 0,061 | --- | --- | --- | 7,53 |
| 25.11.2024 | 23,39 | 5,79 | 2,51 | 55,50 | 2,81 | 0,73 | 0,19 | 2,57 | 0,67 | 0,068 | --- | --- | --- | 7,25 |
| 26.11.2024 | 23,74 | 5,58 | 2,36 | 55,57 | 3,10 | 0,70 | 0,20 | 2,53 | 0,66 | 0,068 | --- | --- | --- | 7,25 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Průměr | 23,98 | 5,59 | 2,37 | 55,71 | 2,93 | 0,71 | 0,22 | 2,52 | 0,69 | 0,066 | --- | --- | --- | 7,31 |
| Max | 24,92 | 5,79 | 2,51 | 57,08 | 3,46 | 0,73 | 0,24 | 2,61 | 0,72 | 0,078 | --- | --- | --- | 7,54 |
| Min | 23,39 | 5,44 | 2,28 | 55,31 | 2,76 | 0,68 | 0,19 | 2,41 | 0,66 | 0,059 | --- | --- | --- | 6,93 |
| Std | 0,47 | 0,10 | 0,06 | 0,54 | 0,22 | 0,02 | 0,02 | 0,07 | 0,02 | 0,007 | --- | --- | --- | 0,25 |
| Četnost | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 8 |
| Norma-min | | | | | | | | | | | | | | |
| Norma-max | | | | | | | | 3,5 | | 0,10 | | | | |

V Mokré dne : 09.01.2025

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