

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

## Statistické hodnocení kvality cementu dle EN 197-1 / ČSN 73 6123-1\*

**Cement: CEM I 42,5 R (sc)**

Období: Od: **01/11/2023**

Závod: **Mokrá**

Do: **30/11/2023**

### Mechanické a fyzikální vlastnosti

Datum	Měrný povrch	Normální konzistence	Počátek tuhnutí	Konec tuhnutí	Objemová stálost	Pevnost v tlaku		Pevnost v ohybu	
						2 dny	28 dní	2 dny	28 dní
Jednotka	[ m <sup>2</sup> /kg ]	[ % ]	[ min ]	[ min ]	[ mm ]	[ MPa ]	[ MPa ]	[ MPa ]	[ MPa ]
01/11/2023	291	27.8	194	305	1.0	26.6	57.4	5.7	8.5
05/11/2023	291	27.6	251	346	0.0	25.2	56.6	5.4	9.3
08/11/2023	310	27.8	207	307	1.0	25.0	55.6	5.4	9.4
14/11/2023	292	27.6	225	340	1.0	26.6	60.7	5.8	9.4
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<b>Průměr</b>	<b>296</b>	<b>27.7</b>	<b>219</b>	<b>325</b>	<b>0.8</b>	<b>25.9</b>	<b>57.6</b>	<b>5.6</b>	<b>9.2</b>
Max	310	27.8	251	346	1.0	26.6	60.7	5.8	9.4
Min	291	27.6	194	305	0.0	25.0	55.6	5.4	8.5
Std	8	0.1	21	19	0.4	0.8	1.9	0.2	0.4
Četnost	4	4	4	4	4	4	4	4	4
Norma-min			60/90*			20.0	42.5		
Norma-max	350*				10		62.5		

### Chemické vlastnosti

Datum	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	Obsah síranů (jako SO <sub>3</sub> )	Na <sub>2</sub> O ekv.	Obsah Cl	Ztráta žháním	Nerozpuštěný zbytek	v. CaO	Vodorozpuštěný chrom (Cr <sup>6+</sup> )	C <sub>3</sub> A ve slínku
Jednotka	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ ppm ]	[ % ]
01/11/2023	20.40	4.89	3.44	64.67	1.53	0.75	0.16	2.94	0.65	0.023	---	---	---	---	6.72
05/11/2023	20.23	4.85	3.43	64.55	1.49	0.73	0.16	2.96	0.64	0.022	1.52	0.52	---	---	6.72
08/11/2023	20.39	4.90	3.41	64.48	1.56	0.74	0.16	3.00	0.65	0.024	---	---	---	---	6.72
14/11/2023	20.36	4.87	3.43	64.92	1.52	0.74	0.16	2.98	0.65	0.022	---	---	---	---	6.72
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<b>Průměr</b>	<b>20.35</b>	<b>4.88</b>	<b>3.43</b>	<b>64.66</b>	<b>1.53</b>	<b>0.74</b>	<b>0.16</b>	<b>2.97</b>	<b>0.65</b>	<b>0.023</b>	<b>1.52</b>	<b>0.52</b>	<b>---</b>	<b>---</b>	<b>6.72</b>
Max	20.40	4.90	3.44	64.92	1.56	0.75	0.16	3.00	0.65	0.024	1.52	0.52	---	---	6.72
Min	20.23	4.85	3.41	64.48	1.49	0.73	0.16	2.94	0.64	0.022	1.52	0.52	---	---	6.72
Std	0.07	0.02	0.01	0.17	0.03	0.01	0.00	0.02	0.00	0.001	0.00	0.00	---	---	0.00
Četnost	4	4	4	4	4	4	4	4	4	4	1	1	0	0	4
Norma-min															
Norma-max								4.0	0.80*	0.10	5,0/3,0*	5.0			8,0*

V Mokré dne : 31/12/2023

Ing. Vojtěch Smutný - vedoucí útvaru řízení jakosti

Technická podpora prodeje:  
e-mail: [technicka.podpora@cmcem.cz](mailto:technicka.podpora@cmcem.cz)  
tel: +420 544 122 544



Českomoravský cement, a.s.  
Mokrá-Horákov, Mokrá 359, PSC 664 04  
závod Mokrá  
IČ: 262 09 578  
DIČ: CZ26209578