

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

**Statistické hodnocení kvality cementu**  
dle EN 197-1

**Cement: CEM I 42,5 R**

Období: Od: **01.12.2021**

Závod: **Mokrá**

Do: **31.12.2021**

**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 ]
01.12.2021	410	27.6	223	295	0.5	28.4	61.4	5.8	9.1
06.12.2021	411	27.0	234	289	1.0	29.1	59.7	6.0	8.7
08.12.2021	416	27.4	235	314	0.0	31.3	61.5	6.0	9.0
11.12.2021	403	27.4	250	324	0.5	28.8	60.5	5.9	9.1
15.12.2021	397	27.0	262	322	1.0	28.5	62.5	5.5	8.7
20.12.2021	420	26.8	237	281	0.5	30.5	60.1	6.2	8.4
22.12.2021	418	26.8	236	289	0.0	29.5	60.8	6.1	8.7
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<b>Průměr</b>	<b>411</b>	<b>27.1</b>	<b>240</b>	<b>302</b>	<b>0.5</b>	<b>29.4</b>	<b>60.9</b>	<b>5.9</b>	<b>8.8</b>
Max	420	27.6	262	324	1.0	31.3	62.5	6.2	9.1
Min	397	26.8	223	281	0.0	28.4	59.7	5.5	8.4
Std	8	0.3	12	16	0.4	1.0	0.9	0.2	0.3
Četnost	7	7	7	7	7	7	7	7	7
Norma-min			60			20.0	42.5		
Norma-max					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 siřanů (jako SO <sub>3</sub> )	Na <sub>2</sub> O ekv.	Obsah Cl	Ztráta žháním	Nerozpuštěný zbytek	Vodorozpuštěný chrom (Cr <sup>6+</sup> )	C <sub>3</sub> A ve sílku
Jednotka	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ % ]	[ ppm ]	[ % ]
01.12.2021	19.68	4.72	3.36	63.09	1.26	0.77	0.15	3.08	0.66	0.072	3.28	1.17	---	6.21
06.12.2021	19.98	4.78	3.32	62.81	1.48	0.77	0.18	2.99	0.69	0.059	---	---	---	6.57
08.12.2021	19.86	4.74	3.32	63.25	1.40	0.78	0.17	3.06	0.68	0.067	---	---	---	6.57
11.12.2021	19.50	4.70	3.36	63.14	1.33	0.77	0.17	3.03	0.68	0.057	3.54	0.84	---	6.57
15.12.2021	19.68	4.66	3.40	62.93	1.43	0.75	0.16	3.04	0.65	0.057	---	---	---	6.57
20.12.2021	19.80	4.71	3.37	63.20	1.40	0.78	0.18	3.22	0.69	0.059	---	---	0.00	6.55
22.12.2021	19.59	4.68	3.37	63.01	1.36	0.79	0.18	3.15	0.70	0.058	---	---	---	6.55
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<b>Průměr</b>	<b>19.73</b>	<b>4.71</b>	<b>3.36</b>	<b>63.06</b>	<b>1.38</b>	<b>0.77</b>	<b>0.17</b>	<b>3.08</b>	<b>0.68</b>	<b>0.061</b>	<b>3.41</b>	<b>1.01</b>	<b>---</b>	<b>6.51</b>
Max	19.98	4.78	3.40	63.25	1.48	0.79	0.18	3.22	0.70	0.072	3.54	1.17	0.000	6.57
Min	19.50	4.66	3.32	62.81	1.26	0.75	0.15	2.99	0.65	0.057	3.28	0.84	0.000	6.21
Std	0.15	0.04	0.03	0.14	0.07	0.01	0.01	0.07	0.02	0.005	0.13	0.17	0.000	0.12
Četnost	7	7	7	7	7	7	7	7	7	7	2	2	1	7
Norma-min														
Norma-max								4.0		0.10	5.0	5.0		

V Mokré dne : 08.02.2022

Ing. Jiří Lerch - vedoucí útvaru řízení jakosti

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