

Quality Certificate of cement

Type of cement : **CEM II/A-V 42,5R**

Requirements acc. to: EN 197-1:2011

Values obtained for the period of: **September 2023**

	Unit	Results	Requirements acc. to: EN 197-1:2011
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1.Properties (by standards)

Compressive strength			
Early strength, after 2 days	MPa	24,6	≥ 20
Standard strength, after 28 days (results from previous month)	MPa	54,5	$\geq 42,5$ i $\leq 62,5$
Initial setting time	min	220	≥ 60
Expansion of cement	mm	0,5	≤ 10
Sulfate content (as SO ₃)	%	2,70	$\leq 4,0$
Chloride content Cl ⁻	%	0,076	$\leq 0,10$
Loss on ignition ^{a)}	%	-	-
Insoluble residues ^{a)}	%	-	-

2. Additional information

Laser particle size distribution passing 8 µm/32 µm	%	30/71	-
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a)only for CEM I and CEM III

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Cementownia Kujawy w Bielawach

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stamp/signature