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KUJAWY CEMENT PLANT IN BIELAWY

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: **April 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	26,7	≥ 20
Standard strength, after 28 days (results from previous month)	MPa	56,0	≥ 42,5 i ≤ 62,5
Initial setting time	min	210	≥ 60
Expansion of cement	mm	0,5	≤ 10
Sulfate content (as SO ₃)	%	2,87	≤ 4,0
Chloride content Cl ⁻	%	0,071	≤ 0,10
Loss on ignition ^{a)}	%	-	-
Insoluble residues ^{a)}	%	-	-

2. Additional information

Laser particle size distribution passing 8 μm/32 μm	%	32/75	-
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a) only for CEM I and CEM III

Anna Kozłowska
Kierownik Jakości
Cementownia Kujawy w Bielawach

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stamp/signature