

Holcim Polska S.A.

Kujawy Cement Plant

Technical Support

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Quality Certificate of cement

Type of cement : **CEM V/A (S-V) 42,5N-LH/HSR/NA**

Requirements acc. to: EN 197-1:2011

Values obtained for the period of: **September 2026**

	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	21,0	≥ 10
Standard strength, after 28 days (results from previous month)	MPa	57,1	$\geq 42,5$ i $\leq 62,5$
Initial setting time	min	263	≥ 60
Expansion of cement	mm	0,6	≤ 10
Sulfate content (as SO ₃)	%	2,62	$\leq 3,5$
Chloride content Cl ⁻	%	0,072	$\leq 0,10$
Insoluble residues ^{a)}	%	-	-
Heat of hydration after 41 h ^{b)}	J/g	267	≤ 270

2. Additional information

Laser particle size distribution passing 8 µm/32 µm	%	40/87	-
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a) only for cements according to standard PN-B-19707:2013-10

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Kozłowska
Cementownia Kujawy w Bielawach
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stamp/signature**Holcim Polska S.A.**

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KRS: 0000062569 (Sąd Rejonowy w Kielcach X Wydział Gospodarczy KRS)

Kapitał akcyjny: 811.329.500 opłacony w pełni, nr rejestracyjny BDO 000001937

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