

ANALYSIS CERTIFICATE

Sampling Date : 15-05-2018

Analysis Date : 16-05-2018

Cement Type: CEM I 52,5 R White

Poland sling export

Chemical & Physical Properties

Cement Characteristics	Standard	Result	Specifications	Units
SiO ₂	EN 196-2	23.50	-	%
Al ₂ O ₃		2.70	-	%
Fe ₂ O ₃		0.230	-	%
CaO		67.03	-	%
K ₂ O		0.05	-	%
Na ₂ O		0.13	-	%
Alkalis content "Na ₂ O Equ."			0.16	
Loss in ignition	EN 196-2	2.06	≤ 5	%
F.CaO	EN 196-2	2.40		%
Magnesia (MgO)	EN 196-2	0.50		%
Sulphur Trioxide (SO ₃)	EN 196-2	3.11	≤ 4.0	%
Chloride	EN 196-2	0.032	≤ 0.10	%
Insoluble Residue	EN 196-2	0.70	≤ 5	
Whiteness (CIE 1931)	Y	84.00		%
	L*	93.41		
Fineness Blaine (cm ² /g)	EN 196-6	4925		cm ² /g
Initial Setting time (min)	EN 196-3	85	≥ 45	min
Final Set (min)	EN 196-3	120		min
Expansion "Le Chatelier" (mm)	EN 196-3	1.0	≤ 10	mm
C3S	Bogue	57.11		%
C2S		17.56		%
C3A		6.77		%

Compressive Strength

	Standard	Result	Limits	Units
2 days	EN 196-1	41.40	≥ 30	N/mm ²
28 days		On going	≥ 52.5	

The above results complying with requirements EN 197-1/2011

Approval by:
Lab. & Q.C.
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