

Cement Type: CEM I 52.5 N White

Sample Date: Dec .2024

**Chemical & Physical Properties** 

Cement Characteristics		Standard	Result	Specifications	Units
SiO <sub>2</sub>		EN 196-2	21.92	-	%
Al <sub>2</sub> O <sub>3</sub>			2.65	-	%
Fe <sub>2</sub> O <sub>3</sub>			0.196	-	%
CaO			66.65	-	%
K <sub>2</sub> O			0.08	-	%
Na <sub>2</sub> O			0.22	-	%
Alkalis content "Na <sub>2</sub> O Equ."			0.20		%
Loss in ignition		EN 196-2	4.20	≤ 5.0	%
F.CaO		EN 196-2	2.87		%
Magnesia (MgO)		EN 196-2	0.35		%
Sulphur Trioxide (SO <sub>3</sub> )		EN 196-2	3.44	≤ 4.0	%
Chloride		EN 196-2	0.042	<b>≤ 0.10</b>	%
Insoluble Residue		EN 196-2	0.83	≤ 5.0	
Whiteness (CIE 1931)	Y		86.20		%
	L*		94.36		
Fineness Blaine (cm <sup>2</sup> /g)		EN 196-6	4002		cm <sup>2</sup> /g
Initial Setting time (min)		EN 196-3	195	≥ 45	min
Final Set (min)		EN 196-3	245		min
Expansion "Le Chatelier" (mm)		EN 196-3	1.0	≤ 10	mm
C <sub>3</sub> S		Bogue	65.10		%
C <sub>2</sub> S			14.09		%
C <sub>3</sub> A			6.69		%

## **Compressive Strength**

	Standard	Result	Limits	Units
2 days	EN 196-1	35.50	≥ <b>20.0</b>	N/mm <sup>2</sup>
28 days		72.82	≥ 52.5	

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

Approval by: Lab. &Q.C. Team

AVGCM Dec 2024