



Portland Cement

CEM I 52.5 N

CHEMICAL COMPOSITION:

NO	DESCRIPTION	Formula	Unit	Value
1	Silicon Dioxide	SiO ₂	%	19.85
2	Aluminum Oxide	Al ₂ O ₃	%	5.70
3	Ferric Oxide	Fe ₂ O ₃	%	3.70
4	Calcium Oxide	CaO	%	64.5
5	Magnesium Oxide	MgO	%	1.01
6	Sulfur Trioxide	SO ₃	%	2.85
7	Chloride	Cl ⁻ < 0.1	%	0.05
8	Loss On Ignition	L.O.I	%	2.28
9	Insoluble Residue	I.R	%	0.49
10	Free-Lime	F-CaO < 2	%	1.26
11	Chromium Hexavalent	Cr VI ≤ 2	ppm	1.5
12	Alkali Equivalent	Na ₂ O Equivalent	%	0.65
13	Sieve 45		%	6.0
14	Sieve 90		%	00

PHYSICS TEST

1	Fineness (Blaine)			3370
2	Water consistency			28.2
3	Initial setting time	Min 45		150
4	Final setting time			220
5	2 Day (Compressive Strength)	Min 20		26
6	28 Day (Compressive Strength)	Min 52.5-Max		56
7	Soundness	Max 10mm		1.15

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