



Portland Cement

CEM I 42.5N

CHEMICAL COMPOSITION:

NO	DESCRIPTION	Formula	Unit	Value
1	Silicon Dioxide	SiO ₂	%	19.41
2	Aluminum Oxide	Al ₂ O ₃	%	5.6
3	Ferric Oxide	Fe ₂ O ₃	%	3.38
4	Calcium Oxide	CaO	%	63.88
5	Magnesium Oxide (Max 5.0)	MgO	%	0.86
6	Sulfur Trioxide (Max 4.0)	SO ₃	%	2.64
7	Chloride	Cl ⁻ < 0.1	%	0.06
8	Insoluble residue (Max 5.0)	I.R < 5	%	0.49
9	Loss On ignition	L.O.I	%	3.5
10	Free - Lime < 2	F-CaO < 2	%	1.5
11	Chromium Hexavalent (Max 2.0)	Cr VI ≤ 2	ppm	1.6
12	Alkali Equivalent	Na ₂ O equivalent	%	0.67
13	Sieve 45		%	9.0
14	Sieve 90		%	0.00

PHYSICS TEST

1	Fineness (Blaine)		Cm ² / g	3050
2	Water consistency		%	27.2
3	Initial setting time	Min 75	Minutes	132
4	Final setting time		Minutes	195
6	2 Day (Compressive Strength)		MPa	19.9
8	28 Day (Compressive Strength)		MPa	46
9	Soundness	Max 10mm	mm	1.5

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