

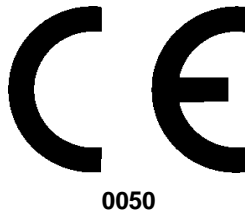
PREMIUM + Cement Data Sheet

Manufactured in: - Lansdown, Killaskillen, Kinnegad, Co. Westmeath, Ireland.

Date: 21/03/2025

Portland - limestone Cement

I.S EN 197-1:2011	CEM II/A-L 42,5 N (1)	27/11/2009
	Certificate of Conformity No: 0050 - CPR - 0033	
CE	CEM II/A-L 42,5 N (1)	27/11/2009



Declared Composition (%)

<u>Constituents</u>	<u>Calcium Sulfate</u>
Portland Cement Clinker (K).....	Gypsum.....
Blastfurnace slag (S).....	Other source of Calcium Sulfate.....
Silica fume (D).....	
Natural pozzolana (P).....	
Natural calcined pozzolana (Q).....	
Siliceous fly ash (V).....	<u>Additives</u>
Calcareous fly ash (W).....	Grinding Aid.....
Burnt Shale (T).....	Ferrous Sulphate.....
Limestone (L).....	

80 - 94 **3.0 - 5.0**
6 - 20 **< 0.1**
< 0.3

Compressive Strengths (MPa)

<u>Time</u>	<u>Test Method</u>	<u>Mean Values</u>	<u>Range of Values</u>	
2 Day	IS EN 196 - 1	24.7	21.0	- 28.0
7 Day	IS EN 196 - 1	38.5	34.5	- 42.5
28 Day	IS EN 196 - 1	47.7	43.5	- 50.0

Physical Properties

<u>Property</u>	<u>Test Method</u>	<u>Mean Values</u>	<u>Range of Values</u>	
Specific density (Kg/M ³)	IS EN 196 - 6	3080	2950	- 3150
Specific surface (M ² /Kg)	IS EN 196 - 6	391	360	- 430
Initial setting time (min)	IS EN 196 - 3	132	100	- 200
Soundness (mm)	IS EN 196 - 3	0.6	0.0	- 4.0

Chemical Properties

<u>Property</u>	<u>Test Method</u>	<u>Mean</u>	<u>Range</u>	<u>Property</u>	<u>Test Method</u>	<u>Mean</u>	<u>Range</u>
LOI (%)	IS EN 196 - 2	9.2	7.0 - 13.0	SO ₃ (%)	IS EN 196 - 2	2.3	2.0 - 3.5
IR (%)	IS EN 196 - 2	0.3	0.1 - 2.0	K ₂ O (%)	IS EN 196 - 2	0.54	0.40 - 0.80
SiO ₂ (%)	IS EN 196 - 2	15.4	13.5 - 17.5	Na ₂ O (%)	IS EN 196 - 2	0.15	0.15 - 0.35
Al ₂ O ₃ (%)	IS EN 196 - 2	4.0	3.7 - 4.7	Cl (%)	IS EN 196 - 2	0.07	0.01 - 0.08
Fe ₂ O ₃ (%)	IS EN 196 - 2	2.4	1.5 - 3.0	FCaO (%)	ISO 29581 - 2	1.1	1.0 - 3.0
CaO (%)	IS EN 196 - 2	68.4	65.0 - 70.0	Na ₂ O _{eqv} (%)	IS EN 196 - 2	0.50	0.45 - 0.75
MgO (%)	IS EN 196 - 2	1.4	1.0 - 1.9	C ₃ A	IS EN 196 - 2	6.8	5.0 - 8.5
Cr(VI) (ppm)	IS EN 196 - 10	0.4	0.0 - 2.0				