

Cement Data Sheet

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

Date: 01/02/2021

Portland Cement

I.S EN 197-1:2011	CEM II/A-L 52,5 N (White)	03/01/2005
	Certificate of Conformity No: 0856 - CPR - 0153	
CE	CEM II/A-L 52,5 N (White)	03/01/2005



Declared Composition (%)

<u>Constituents</u>	<u>Calcium Sulfate</u>
Portland Cement Clinker (K).....	Gypsum.....
Granulated blastfurnace slag (S).....	Other source of Calcium Sulfate.....
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 - 6.0**
 - -
 - -
 - -
 - **< 0.1**
 - **< 0.1**
 - -
6 - 20

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	33.1	30.0 - 36.0
7 Day	IS EN 196 - 1	49.5	46.5 - 52.5
28 Day	IS EN 196 - 1	61.8	57.0 - 65.0

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	3000	2925 - 3075
Specific surface (M ² /Kg)	IS EN 196 - 6	514	465 - 565
Initial setting time (min)	IS EN 196 - 3	132	90 - 200
Soundness (mm)	IS EN 196 - 3	0.6	0.0 - 3.0
Whitness L*		91.5	90.0 - 94.0

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 - 11.0	SO ₃ (%)	IS EN 196 - 2	3.1	2.0 - 3.5
IR (%)	IS EN 196 - 2	0.3	0.0 - 3.0	K ₂ O (%)	IS EN 196 - 2	0.18	0.10 - 0.90
SiO ₂ (%)	IS EN 196 - 2	18.7	17.1 - 20.7	Na ₂ O (%)	IS EN 196 - 2	0.04	0.00 - 0.25
Al ₂ O ₃ (%)	IS EN 196 - 2	2.9	2.3 - 3.3	Cl (%)	IS EN 196 - 2	0.003	0.00 - 0.08
Fe ₂ O ₃ (%)	IS EN 196 - 2	0.1	0.0 - 1.5	FCaO (%)	ISO 29581 - 2	1.3	0.5 - 3.0
CaO (%)	IS EN 196 - 2	70.3	68.0 - 73.0	Na ₂ O _{eqv} (%)	IS EN 196 - 2	0.16	0.00 - 0.75
MgO (%)	IS EN 196 - 2	0.4	0.0 - 1.0	Cr(VI) (ppm)	IS EN 196 - 10	0.0	0.0 - 2.0