

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/B-L 32,5 R (White)	19/07/2002
	Certificate of Conformity No: 0856 - CPR - 0142	
CE	CEM II/B-L 32,5 R (White)	19/07/2002



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).....	

65 - 79 3.0 - 5.0
 - -
 - -
 - -
 - < 0.1
 - < 0.1
 - -
 21 - 35

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	20.2	16.5 - 22.5
7 Day	IS EN 196 - 1	32.5	29.5 - 35.5
28 Day	IS EN 196 - 1	44.2	40.0 - 48.0

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	3110	3050 - 3200
Specific surface (M ² /Kg)	IS EN 196 - 6	555	500 - 600
Initial setting time (min)	IS EN 196 - 3	154	90 - 200
Soundness (mm)	IS EN 196 - 3	0.5	0.0 - 3.0
Whitness L*		91.3	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	14.9	13.0 - 17.0	SO ₃ (%)	IS EN 196 - 2	3.0	2.0 - 3.5
IR (%)	IS EN 196 - 2	1.0	0.0 - 3.0	K ₂ O (%)	IS EN 196 - 2	0.16	0.10 - 0.90
SiO ₂ (%)	IS EN 196 - 2	15.0	13.5 - 17.0	Na ₂ O (%)	IS EN 196 - 2	0.04	0.00 - 0.25
Al ₂ O ₃ (%)	IS EN 196 - 2	2.5	2.0 - 3.0	Cl (%)	IS EN 196 - 2	0.005	0.00 - 0.08
Fe ₂ O ₃ (%)	IS EN 196 - 2	0.1	0.0 - 1.5	FCaO (%)	ISO 29581 - 2	1.2	0.5 - 3.0
CaO (%)	IS EN 196 - 2	70.9	68.0 - 73.0	Na ₂ O _{eqv} (%)	IS EN 196 - 2	0.15	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