

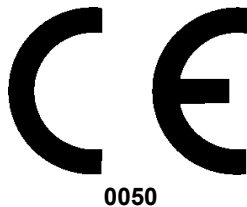
SULFATE Resisting Cement Data Sheet

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

Date: 23/03/2026

Blast furnace Cement

I.S EN 197-1:2011	CEM III/A 52,5 L	29/08/2013
	Certificate of Conformity No: 0050 - CPR - 0107	
CE	CEM III/A 52,5 L	29/08/2013



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).....	

35 - 64

36 - 65

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-

3.0 - 5.0

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-

-

< 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	21.6	18.0	- 28.0
7 Day	IS EN 196 - 1	40.7	34.0	- 44.0
28 Day	IS EN 196 - 1	60.2	53.0	- 62.0

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	3067	2950	- 3150
Specific surface (M ² /Kg)	IS EN 196 - 6	393	360	- 430
Initial setting time (min)	IS EN 196 - 3	170	120	- 240
Soundness (mm)	IS EN 196 - 3	0.5	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	2.3	1.0 - 4.0	SO ₃ (%)	IS EN 196 - 2	1.6	1.2 - 2.7
IR (%)	IS EN 196 - 2	0.1	0.1 - 2.0	K ₂ O (%)	IS EN 196 - 2	0.51	0.40 - 0.80
SiO ₂ (%)	IS EN 196 - 2	25.0	22.5 - 27.5	Na ₂ O (%)	IS EN 196 - 2	0.23	0.15 - 0.35
Al ₂ O ₃ (%)	IS EN 196 - 2	7.1	6.0 - 8.0	Cl (%)	IS EN 196 - 2	0.05	0.01 - 0.08
Fe ₂ O ₃ (%)	IS EN 196 - 2	2.2	1.3 - 2.8	FCaO (%)	ISO 29581 - 2	1.2	1.0 - 3.0
CaO (%)	IS EN 196 - 2	59.3	58.5 - 61.5	Na ₂ O _{equiv} (%)	IS EN 196 - 2	0.57	0.45 - 0.75
MgO (%)	IS EN 196 - 2	3.2	2.0 - 4.0	C ₃ A	IS EN 196 - 2	6.3	4.5 - 7.5
Cr(VI) (ppm)	IS EN 196 - 10	0.4	0.0 - 2.0				