

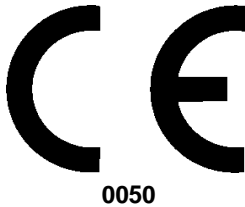
SULFATE Resisting Cement Data Sheet

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

Date: 15/03/2024

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 **3.0 - 5.0**
36 - 65 -
 -
 -
 -
 - **< 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	21.3	18.0	-	28.0
7 Day	IS EN 196 - 1	38.6	33.0	-	43.0
28 Day	IS EN 196 - 1	55.9	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	3048	2950	-	3150
Specific surface (M ² /Kg)	IS EN 196 - 6	392	360	-	430
Initial setting time (min)	IS EN 196 - 3	172	120	-	240
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	2.4	1.0 - 4.0	SO ₃ (%)	IS EN 196 - 2	1.6	1.2 - 2.7
IR (%)	IS EN 196 - 2	0.2	0.1 - 2.0	K ₂ O (%)	IS EN 196 - 2	0.51	0.40 - 0.80
SiO ₂ (%)	IS EN 196 - 2	25.1	22.0 - 27.0	Na ₂ O (%)	IS EN 196 - 2	0.23	0.15 - 0.35
Al ₂ O ₃ (%)	IS EN 196 - 2	6.5	5.5 - 7.5	Cl (%)	IS EN 196 - 2	0.06	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	59.1	58.5 - 61.5	Na ₂ O _{eqv} (%)	IS EN 196 - 2	0.56	0.45 - 0.75
MgO (%)	IS EN 196 - 2	3.0	2.2 - 3.7	C ₃ A	IS EN 196 - 2	5.7	3.5 - 6.5
Cr(VI) (ppm)	IS EN 196 - 10	0.3	0.0 - 2.0				