

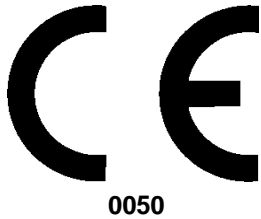
# SULFATE Resisting Cement Data Sheet

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

Date: 15/03/2023

## 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).....	35 - 64	Gypsum.....	3.0 - 5.0
Granulated blastfurnace slag (S).....	36 - 65	Other source of Calcium Sulfate.....	-
Natural pozzolana (P).....	-	<u>Additives</u>	
Natural calcined pozzolana (Q).....	-	Grinding Aid.....	< 0.1
Siliceous fly ash (V).....	-	Ferrous Sulphate.....	< 0.3
Calcareous fly ash (W).....	-		
Burnt Shale (T).....	-		
Limestone (L).....	-		

## 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	22.3	18.0	28.0
7 Day	IS EN 196 - 1	39.4	33.0	43.0
28 Day	IS EN 196 - 1	57.0	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 <sup>3</sup> )	IS EN 196 - 6	3072	2950	3150
Specific surface (M <sup>2</sup> /Kg)	IS EN 196 - 6	397	360	430
Initial setting time (min)	IS EN 196 - 3	160	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	2.4	1.0 - 4.0	SO <sub>3</sub> (%)	IS EN 196 - 2	1.7	1.2 - 2.7
IR (%)	IS EN 196 - 2	0.2	0.1 - 2.0	K <sub>2</sub> O (%)	IS EN 196 - 2	0.48	0.40 - 0.80
SiO <sub>2</sub> (%)	IS EN 196 - 2	24.4	22.0 - 27.0	Na <sub>2</sub> O (%)	IS EN 196 - 2	0.24	0.15 - 0.35
Al <sub>2</sub> O <sub>3</sub> (%)	IS EN 196 - 2	6.3	5.0 - 7.0	Cl (%)	IS EN 196 - 2	0.06	0.01 - 0.08
Fe <sub>2</sub> O <sub>3</sub> (%)	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	59.4	58.5 - 61.5	Na <sub>2</sub> O <sub>eqv</sub> (%)	IS EN 196 - 2	0.55	0.45 - 0.75
MgO (%)	IS EN 196 - 2	2.9	2.2 - 3.7	C <sub>3</sub> A	IS EN 196 - 2	5.8	3.5 - 6.5
Cr(VI) (ppm)	IS EN 196 - 10	0.4	0.0 - 2.0				