

## SULFATE Resisting Cement Data Sheet

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

Date: 01/02/2021

### Blast furnace Cement

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



### 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).....	
Calcareous fly ash (W).....	
Burnt Shale (T).....	
Limestone (L).....	
	<u>Additives</u>
	Grinding Aid.....
	Ferrous Sulphate.....

### 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	23.0	18.0 - 28.0
7 Day	IS EN 196 - 1	40.3	33.0 - 43.0
28 Day	IS EN 196 - 1	58.0	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	3060	2950 - 3150
Specific surface (M <sup>2</sup> /Kg)	IS EN 196 - 6	395	360 - 430
Initial setting time (min)	IS EN 196 - 3	158	130 - 250
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	2.3	1.0 - 4.0	SO <sub>3</sub> (%)	IS EN 196 - 2	1.7	1.2 - 2.7
IR (%)	IS EN 196 - 2	0.1	0.1 - 2.0	K <sub>2</sub> O (%)	IS EN 196 - 2	0.47	0.40 - 0.80
SiO <sub>2</sub> (%)	IS EN 196 - 2	23.8	22.0 - 27.0	Na <sub>2</sub> O (%)	IS EN 196 - 2	0.26	0.15 - 0.35
Al <sub>2</sub> O <sub>3</sub> (%)	IS EN 196 - 2	6.5	6.0 - 8.0	Cl (%)	IS EN 196 - 2	0.05	0.01 - 0.08
Fe <sub>2</sub> O <sub>3</sub> (%)	IS EN 196 - 2	2.1	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	0.57	0.45 - 0.75
MgO (%)	IS EN 196 - 2	2.8	2.2 - 3.7	C <sub>3</sub> A	IS EN 196 - 2	5.2	3.5 - 6.5
Cr(VI) (ppm)	IS EN 196 - 10	0.7	0.0 - 2.0				