

Product Data

AS3582.2 Supplementary Cementitious Materials

Ground Granulated Iron Blast Furnace Slag



Nominal Composition

Component	%
Ground granulated blast furnace slag	>95
Gypsum	≤5

Physical Properties

Parameter	Units	Minimum ¹	Typical	Maximum ¹	AS3582.2	Test Method
Relative Strength 28 Day	%	83	94	107		AS3583.6
Relative Water	%	99	103	106		AS3583.6
Fineness	m ² /kg	380	415	450		AS2350.8
+45µm	%	3	11	23		Laser PSD

Chemical Properties

Parameter	Units	Minimum ¹	Typical	Maximum ¹	AS3582.2	Test Method
CaO	%	40.0	42.5	45.0		AS2350.2
SiO ₂	%	30.5	32.5	34.0		AS2350.2
Al ₂ O ₃	%	11	12.5	14	≤18.0	AS2350.2
Fe ₂ O ₃	%	0.4	0.8	1.5		AS2350.2
MgO	%	4.0	5.5	6.4	≤15.0	AS2350.2
SO ₃	%	1.2	2.2	3.1		AS2350.2
MnO	%	0.07	0.09	0.12	≤2.0	AS2350.2
Sulfide sulphur (S ²⁻)	%	0.6	0.8	1.0	≤1.5	AS3583.7
Na ₂ O equivalent	%	0.3	0.4	0.55		AS2350.2
Chloride	%	0.005	0.011	0.019	≤0.1	AS3593.13
Loss on ignition (700°C)	%	0.5	1.5	2.7	≤3.0	AS2350.2

¹ – Results for minimum and maximum values indicate 95% confidence interval limits based on 12 months data preceding the issue date. Confidence limits adjusted for non-normal distributions. Individual sample results may fall outside the values stated above.

