

Product Technical 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 Meth-
Relative Strength 28 Day	%	83	90	97		AS3583.6
Relative Water	%	100	101	103		AS3583.6
Fineness	m ² /kg	390	440	480		AS2350.8

Chemical Properties

Parameter	Units	Minimum ¹	Typical	Maximum ¹	AS3582.2	Test Method
CaO	%	41	42.5	44		AS2350.2
SiO ₂	%	32.5	33.5	34.5		AS2350.2
Al ₂ O ₃	%	11.5	13.0	14.5	≤18.0	AS2350.2
Fe ₂ O ₃	%	0.3	0.8	1.4		AS2350.2
MgO	%	5.1	6.1	7.0	≤15.0	AS2350.2
SO ₃	%	0.5	1.3	2.0		AS2350.2
Mn ₂ O ₃	%	0.12	0.20	0.30	≤2.0	AS2350.2
Sulfide sulphur (S ²⁻)	%	0.4	0.8	1.1	≤1.5	AS3583.7
Na ₂ O equivalent	%	0.35	0.45	0.55		AS2350.2
Loss on ignition	%	-1	0	+1	≤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.

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