

Ground Granulated Blast Furnace Slag for Use in Cemen

Chemical Properties Reference IS 16714: 2018 Ground Granulated Blast Furnace Slag for Use in Cement, Mortar and Concrete – Specifications Table 1 Chemical Requirements of GGBS (Clause 5.1)

i)	Manganese oxide (MnO), Max	5.5	IS 4032
ii)	Magnesium oxide (MgO), Max	17	IS 4032
iii)	Sulphide sulphur (S), Max	2	IS 4032
iv)	Sulphate (as SO ₃), Max	3	IS 4032
v)	Insoluble residue, Max	3	IS 4032
vi)	Chloride content, Max	0.1	IS 4032
vii)	Loss on ignition, Max	3	IS 4032
viii)	(CaO+MgO+1/3Al ₂ O ₃) / (SiO ₂ +2/3 Al ₂ O ₃) Min	1	IS 4032
ix)	(CaO+MgO + Al ₂ O ₃) / SiO ₂ Min	1	IS 4032
x)	(CaO+CaS+1/2MgO+Al ₂ O ₃) /SiO ₂ Min	1.5	IS 4032

Physical Properties Reference IS 16714: 2018 Ground Granulated Blast Furnace Slag for Use in Cement, Mortar and Concrete – Specifications Table 2 Chemical Requirements of GGBS (Clause 5.1)

Sl No.	Constituent	Requirement	Method of Test, Ref to
i)	i) Fineness, m ₂ /kg, Min	320	See Note 1 in reference code
ii)	Slag activity index		See Note 2 in reference code
	a) 7 days	Not less than 60 percent of control OPC 43 Grade cement mortar cubes	
	b) 28 days	Not less than 75 percent of control OPC 43 Grade cement mortar cubes	

Please refer to relevant codes for mor clarity