

Technical Data Sheet

GGBFS Slag

Product Description: **Ground Granulated Blast Furnace Slag (GGBFS or GGBS)** is a by-product extracted from the process of iron production. The main components of blast furnace slag are CaO, SiO₂, Al₂O₃, and MgO. When mixed with Portland Cement, (replacement from 30% to 85%) Concrete containing ground granulated slag develops higher strength over a longer period, leading to reduced permeability and better durability. Since the unit volume of Portland cement is reduced, the resultant concrete is less vulnerable to alkali-silica and sulfate attack. Other uses include High Performance Cement, Soil cement, Roller compacted concrete, Road Base, and Agriculture/Soil Amendment.

Physical Properties:

Coloration	Off-white
pH Value	10—11
Absorption Performance (by wt. with H ₂ O)	89.2%
SiO ₂	~ 34.2 %
CaO	~ 41.41%
Al ₂ O ₃	~ 13.68 %
MgO	~ 6.24 %
Fe ₂ O ₃	~ .75 %
Specific Gravity	2.93
Standard Unit weight	80—85 pcf
Blaine Fineness (cm ² /g)	5810
Passing 325 Mesh	99.9% (80 min)
Air Content	4.9% (12 max)
Slag Activity	
7 day Individual	139 (90 min)
28 day Individual	152 (110 min)
Compressive Strength (PSI)	
7 day Slag and Cement	5640
28 day Slag and Cement	8570 (5000 min)

Available Packaging:

Bulk or bulk bags . DMI can also provide on-site storage

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