



PRODUCT DATA SHEET

Cement Grade Blended Granulate

Product Code: GBF 056

Definition

Blast furnace slag is the non-metallic product consisting essentially of silicates and aluminosilicates of calcium and other bases that are developed in a molten condition simultaneously with iron in a blast furnace.

Granulated blast furnace (GBF) slag is a glassy, granular material. Produced when molten slag is passed through high volume water sprays, breaking the slag stream into small droplets and cooling them so quickly that crystallisation is suppressed.

Description

Cement Grade Blended Granulate is a coarse sand-like material with a porous, amorphous structure and ranging from white to golden brown in colour.

Application

In the manufacturing process blended granulate is dried and either interground with Portland cement clinker or separately ground and post blended with Portland cement at the cement plant or concrete batching plant.

Typical Grading

SIEVE	% PASSING
6.7mm	100
4.75	97-100
2.36	80-100
1.18	40-80
600um	10-40
75	0-5
45	0-2

Chemical Properties

Cement Grade Blended Granulate is composed of mostly amorphous phases, but for ease of reporting oxide equivalents are used and fall within the relatively narrow limits given below:

CONSTITUENT	SYMBOL	%
Iron Oxide	FeO	<1.3
Calcium Oxide	CaO	38 – 43
Silicon Dioxide	SiO ₂	32 – 37
Aluminium Oxide	Al ₂ O ₃	13 – 16
Magnesium Oxide	MgO	5 – 8
Titanium Dioxide	TiO ₂	<1.5
Manganese Oxide	MnO	<1.0
Sulphur	S	<1.0
Sodium Oxide	Na ₂ O	<0.5
Lime/Silica Ratio	$\frac{CaO}{SiO_2}$	1.1-1.3
Hydraulic Index	$\frac{CaO+MgO+Al_2O_3}{SiO_2}$	1.7-1.9
Chloride Ion	Cl	<250ppm

Typical Physical Properties

Bulk Density (Loose)	0.85-1.15 t/m ³
Glass Content	>85%
Moisture Content	5 - 15%

Technical and Customer Enquires

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