



Crusher Dust

Product Code: ABF 200

Definition

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

Air-cooled blast furnace (ABF) slag is a predominantly crystalline, solid rock-like material.

Description

Crusher dust is a grey coloured fine aggregate consisting of angular to roughly cubical shaped particles with a characteristically vesicular structure and rough surface texture.

Applications

All types of construction including:

- ◆ General fill and paving sand
- ◆ Refractory sand
- ◆ Concrete, cement and masonry raw material

Properties

- ◆ Resistant to heat and fire
- ◆ Alkaline in presence of moisture
- ◆ Non-plastic
- ◆ Consistent chemistry
- ◆ Excellent load bearing capacity
- ◆ High stability and durability
- ◆ Ease of compaction

Typical Grading

SIEVE	% PASSING
9.5mm	100
6.7	99
4.75	90-100
2.36	65-75
600µm	25-40
75	3-7

Oxide Analysis

Blast furnace slag is composed of silicates and aluminosilicates, but for ease of reporting oxide equivalents are used and fall within the 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 – 18
Magnesium Oxide	MgO	5 – 8
Titanium Dioxide	TiO ₂	<1.5
Manganese Oxide	MnO	<0.5
Potassium Oxide	K ₂ O	<0.5
Sulphur	S	<1.0
Sodium Oxide	Na ₂ O	<0.3

Typical Physical Properties

Maximum Dry Density	2.00-2.15 t/m ³
Optimum Moisture Content	10-13%
Bulk Density (Loose)	1.35-1.45 t/m ³
(Compacted)	1.50-1.60 t/m ³
Particle Density (Dry)	2.70-2.80 t/m ³
(SSD)	2.75-2.85 t/m ³
Water Absorption	2.5-3.5%
Plasticity Index	Non-plastic
Organic Impurities	Free
Sugar	Free
pH	10-12

Technical Services and Customer Enquiries

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