

CIVIL GRADE GRANULATE

Product Code: GBF007

PRODUCT DESCRIPTION

ASMS GBF007 Civil Grade Granulate is a coarse sand-like material with a porous, amorphous structure ranging from white to golden brown in colour.

APPLICATIONS

GBF007 is suitable for use in a range of manufacturing and civil applications including:

- Roadbase stabilisation
- Civil fill
- Water treatment
- Reprocessing into commercial products

COMPOSITION AND MATERIALS

GBF007 is a glassy, granular material produced by granulating blast furnace slag.

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

Molten slag is passed through high volume water sprays which break the slag stream into small droplets which are rapidly quenched, suppressing crystallisation and resulting in a material with a porous, amorphous structure.

ADVANTAGES

- Cementitious properties
- Low chloride content
- Cost effective

ENVIRONMENTAL VALUE

- Effective utilisation of an industrial by-product
- Conserves natural resources and preserves natural landscape
- Reduces the requirement for landfilling
- Reduces greenhouse gas emissions

TYPICAL PHYSICAL PROPERTIES

PROPERTY	UNIT	TYPICAL
Bulk Density (Loose)	t/m ³	0.85 - 1.05
Glass Content		>85%
Angle of Repose		Approx. 35°

CHEMICAL PROPERTIES

Blast furnace slag is composed of silicates and aluminosilicates. Oxide equivalents are used for ease of reporting and typically fall within the limits below. Civil Grade Granulate may contain high and variable quantities of metallic iron.

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	<0.5
Hydraulic Index	$\frac{CaO+MgO+Al_2O_3}{SiO_2}$	1.7 – 1.9
Chloride Ion	Cl	<250ppm

TECHNICAL AND CUSTOMER ENQUIRIES

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