

# PRODUCT DATA SHEET

## CEMENT 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

ASMS 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. These are 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 and are rapidly quenched. This suppresses crystallisation and results 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 <sup>3</sup>	0.95 - 1.15
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 <sub>2</sub>	32 – 37
Aluminium Oxide	Al <sub>2</sub> O <sub>3</sub>	13 – 16
Magnesium Oxide	MgO	5 – 8
Titanium Dioxide	TiO <sub>2</sub>	<1.5
Manganese Oxide	MnO	<0.5
Hydraulic Index	$\frac{\text{CaO}+\text{MgO}+\text{Al}_2\text{O}_3}{\text{SiO}_2}$	1.7-1.9
Chloride Ion	Cl	<250ppm

### TECHNICAL AND CUSTOMER ENQUIRIES

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