

# CEMENT GRADE GRANULATE

## Product Code: GBF006

### PRODUCT DESCRIPTION

**ASMS GBF006 Cement Grade Granulate is a coarse sand-like material with a porous, amorphous structure ranging from white to golden brown in colour.**

### APPLICATIONS

**GBF006** is suitable for use in a range of manufacturing and civil applications including:

- Grinding for cement replacement.
- Block making
- Roadbase stabilisation
- Water treatment

### COMPOSITION AND MATERIALS

GBF006 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

- Consistent chemistry
- Cementitious properties
- Low iron levels
- Bright colour
- Low chloride content

#### ASMS DISCLAIMER

The information contained in this Product Data Sheet is accurate for general consideration, however, no warranty is expressed or implied regarding the accuracy of this data on specific applications. Information is furnished upon the condition that the user shall obtain specific advice and/or carry out tests to determine suitability for a particular purpose and for specific site and application conditions. Sales specifications, although current at the time of publication, are subject to change due to process improvements. For the latest product specifications or usage updates contact ASMS. PDS-GBF006: Rev. 4: 29.05.15

### 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>	0.85 - 1.05
Glass Content		>85%
Angle of Repose		Approx. 35°

### CHEMICAL PROPERTIES

Granulated blast furnace slag is composed amorphous phases of silicates and aluminosilicates, 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 <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	$\frac{CaO+MgO+Al_2O_3}{SiO_2}$	1.7-1.9
Chloride Ion	Cl	<250ppm

### TECHNICAL AND CUSTOMER ENQUIRIES

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