

MASONRY GRADE GRANULATE

Product Code: GBF004

PRODUCT DESCRIPTION

ASMS GBF004 Masonry Grade Granulate is a coarse sand-like material with a porous, amorphous structure ranging from white to golden brown in colour.

APPLICATIONS

GBF004 is suitable for use in a range of manufacturing and civil applications including:

- Block making
- Roadbase stabilisation
- Water treatment

COMPOSITION AND MATERIALS

GBF004 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

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

TECHNICAL AND CUSTOMER ENQUIRIES

Telephone: (02) 4255 1125

Email: enquiries@asms.com.au

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-GBF004: Rev.3 : 23.06.15