

# PRODUCT DATA SHEET

## CONCRETE AGGREGATE 10mm

### Product Code: ABF210

#### PRODUCT DESCRIPTION

ASMS ABF210 is a single sized 10 mm concrete aggregate conforming to AS2758.1.

#### APPLICATIONS

ASMS ABF210 is manufactured as an aggregate for use in concrete.

#### COMPOSITION AND MATERIALS

ABF210 is produced by crushing and screening blast furnace slag to a single size 10 mm aggregate consisting of angular to roughly cubical shaped particles with a characteristically vesicular structure and rough surface texture. Aggregates are aged and watered to achieve the target SSD.

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.

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

#### ADVANTAGES

- Consistent chemistry.
- Excellent load bearing capacity.
- Non-plastic.
- Resistant to heat and fire.
- Vesicular surface improves mechanical interlock.
- Economic alternative to natural aggregates.
- Effective utilisation of an industrial by-product conserving natural resources.

#### TYPICAL GRADING

SIEVE	% PASSING
13.2 mm	100
9.5 mm	92
6.7 mm	47
4.75 mm	18
2.36 mm	10
1.18 mm	9

#### TYPICAL PHYSICAL PROPERTIES

PROPERTY	UNIT	TYPICAL
Bulk Density (Loose)	t/m <sup>3</sup>	1.2-1.4
Bulk Density (Compacted)	t/m <sup>3</sup>	1.3-1.5
Particle Density (Apparent)	t/m <sup>3</sup>	2.75-2.95
Particle Density (Dry)	t/m <sup>3</sup>	
Particle Density (SSD)	t/m <sup>3</sup>	2.60-2.80
Wet Strength	kN	70-90
Dry Strength	kN	80-100
Water Absorption	%	2.5-6.0
Chlorides	%	<0.05
Sulphates as SO <sub>3</sub>	%	<0.2
Alkali Reactivity	-	Innocuous
Sugar	-	Free
Iron Unsoundness	-	Free

#### OXIDE ANALYSIS

CONSTITUENT	SYMBOL	%
Iron Oxide	FeO	0.5
Calcium Oxide	CaO	42
Silicon Dioxide	SiO <sub>2</sub>	35
Aluminium Oxide	Al <sub>2</sub> O <sub>3</sub>	14
Magnesium Oxide	MgO	6
Sulphur	S	0.5
Sodium Oxide	Na <sub>2</sub> O	0.3

#### TECHNICAL AND CUSTOMER ENQUIRIES

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