

# PRODUCT DATA SHEET

## CONCRETE AGGREGATE 20 x 10mm

**Product Code: ABF259**

### PRODUCT DESCRIPTION

ASMS ABF259 is a 20 x 10 mm concrete aggregate conforming to AS2758.1 - 20 mm graded aggregate.

### APPLICATIONS

ASMS ABF259 is manufactured as an aggregate for use in concrete.

### COMPOSITION AND MATERIALS

ABF259 is produced by crushing and screening blast furnace slag to a single size 10mm 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
26.5 mm	100
19.0 mm	97
13.2 mm	60
9.5 mm	28
4.75 mm	10
2.36 mm	7

### 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>	2.70-2.90
Particle Density (Dry)	t/m <sup>3</sup>	2.45-2.65
Particle Density (SSD)	t/m <sup>3</sup>	2.55-2.75
Wet Strength	kN	70-90
Dry Strength	kN	80-100
Water Absorption	%	2.5-5.5
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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