

20 x 10 mm CONCRETE AGGREGATE

Product Code: ABF259

PRODUCT DESCRIPTION

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

APPLICATIONS

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	65
9.5 mm	30
4.75 mm	6
2.36 mm	4

TYPICAL PHYSICAL PROPERTIES

PROPERTY	UNIT	TYPICAL
Bulk Density (Loose)	t/m ³	1.2-1.4
Bulk Density (Compacted)	t/m ³	1.3-1.5
Particle Density (Apparent)	t/m ³	2.7-2.9
Particle Density (Dry)	t/m ³	2.5-2.7
Particle Density (SSD)	t/m ³	2.6-2.8
Wet Strength	kN	70-90
Dry Strength	kN	80-100
Water Absorption	%	3-6
Chlorides	%	<0.05
Sulphates as SO ₃	%	<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 ₂	35
Aluminium Oxide	Al ₂ O ₃	14
Magnesium Oxide	MgO	6
Sulphur	S	0.5
Sodium Oxide	Na ₂ O	0.3

TECHNICAL AND CUSTOMER ENQUIRIES

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