

10 mm CONCRETE AGGREGATE

Product Code: ABF210

PRODUCT DESCRIPTION

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

APPLICATIONS

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	90
6.7 mm	45
4.75 mm	15
2.36 mm	5
1.18 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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