

Concrete Aggregates

Applications

These materials are suitable for a variety of applications such as use in the production of concrete for civil engineering and construction projects.

Characteristics

Concrete aggregate shall be clean, hard, durable, sound, and be free of organic matter, clay or other deleterious materials.

Technical Properties

Particle Size/Grading (AS 1141.11/12)

Size (mm)	20mm	10mm	7mm
	Typical Result (% Passing)		
26.0	100		
19.0	94		
13.2	30	100	
9.5	1.5	51	100
6.7	1.0	5.0	92
4.75	---	1.0	22
2.36	---	---	1.5
Finer than 0.075	1.0	1.0	1.0

Other Properties

Test	Test Method	Typical Result		
		20mm	10mm	7mm
Flakiness	AS 1141.15	18 %	21 %	26 %
Bulk Density - Loose	AS 1141.4	1.35 t/m ³	1.40 t/m ³	1.40 t/m ³
Bulk Density – Compacted	AS 1141.4	1.45 t/m ³	1.60 t/m ³	1.60 t/m ³
Particle Density	AS 1141.6.1	2.72 t/m ³		
Water Absorption	AS 1141.6.1	0.6 %		
10% Fines Value WET	AS 1141.22	260 kN	265 kN	270 kN
Max. WET/DRY strength variation	AS 1141.22	18 %	20 %	26 %
Los Angeles Value (combined fraction 20mm/10mm/7mm)	AS 1141.23	12.4 (B)		
Sodium Sulfate Soundness (combined fraction 20mm/10mm/7mm)	AS 1141.24	0.1 %		

Note:

Typically hard rock materials that are available within the region are quarried from Metagreywacke deposits. These products have a tendency to change colour over time and will result in a change in colour from typical grey through to brown. The variance from grey to brown has little or no effect on the quality, durability or size of the final product.

Precautions

Suitable handling and work instructions should be developed for use of this product that takes into account safety information that is available on the Safety Data Sheet for quarried Meta-greywacke rock. The Safety Data Sheet is available from Nucrush's website at www.nucrush.com.au or by contacting Nucrush on Tel 07 5573 8000.

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For more information about Nucrush and its products, please visit the Nucrush website at www.nucrush.com.au or email sales@nucrush.com.au.

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