

PRODUCT DATA SHEET - 20mm NuFilter Aggregate

Applications

This material is typically used in the construction of gravel drainage layers, for example in the construction of baseliner and leachate collection systems used in waste management cells.

Characteristics

20mm NuFilter aggregate shall be clean, hard, durable, sound and typically;

- Be of 10mm to 20mm size.
- Have a coefficient of uniformity less than 2.
- Be free from fine material, has no more than 1% (by weight) passing 4.75mm sieve size.
- Be free of organic matter, clay or other deleterious material.
- Shall not be subject to physical or chemical degradation by leachate.
- Have a permeability of 1×10^{-3} m/s or greater.
- Contain no limestone or other calcareous material that would be subject to chemical attack and less than 15% calcium carbonate by volume.
- Be non-soluble in acid.
- Have a Los Angeles Abrasion Value equal to or less than 35.

Technical Properties

Particle Size/Grading

Size (mm)	Specification (% Passing)	Typical Result (%)
26.0	100	100
19.0	95 – 100	98
9.5	0 – 8	3
4.75	0 - 1	0.5
Coefficient of Uniformity	< 2.0	1.4

Other Properties

Test	Test Method (or equivalent)	Typical Result
Acid Solubility	AWWA B100	< 2.0
Calcium Carbonate Content (by volume)	CS Piper Method	< 1
Organic Impurities	AS 1289.4.1.1	Negative
Los Angeles Abrasion	AS 1141.23	11 – 13 (B)
Permeability	AS 1289.6.7.1	3.0 E-2 m/s
Sodium Sulphate Soundness	AS1141.24	0.1
Loss on Ignition	AS2350.2	1.5% - 3.0%

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. Nucrush Pty. Ltd. Administration Tel 07 5573 8000 Fax 07 5573 2908

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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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