



spelstormwater
joy in water

SPELBio®

Bioretention Filter Media

OVERVIEW

SPELBio media is a highly advanced stormwater filtration system and growing media.

SPELBio Bioretention Filter Media helps plants establish quickly.

It can be used in standard catch basin structures, rain gardens, bioretention cells and pre-fabricated structures such as SPELVault concrete tanks.

BENEFITS

- Removal of excess nutrients i.e. NPK
- Growing media supports plant establishment
- Low nitrogen and phosphorus content

FEATURES

- Organic matter source includes mature compost made in general accordance with MRTS Form G Standard
- Optimal Total Dissolved Salts (EC) for establishing plants and supporting growth
- Made in general accordance with CRC for Water Sensitive Cities Appendix C: Guidelines for filter media in stormwater biofiltration systems (Version 4.01) - July 2015

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APPLICATIONS

- Commercial
- Industrial
- Residential

SPECIFICATIONS

CHEMICAL PROPERTIES			
Organic Matter (%)	**Calculation - Total Carbon x 1.7	2.0 – 2.6	<5
pH in H2O (1:5) (pH unit)	AS4419 – 2003	7.46 - 7.59	5.5-7.5
Electrical Conductivity in H2O (1:5) (dS/m)	AS4419 – 2003	0.23 – 0.26	<1.2
Total Nitrogen (mg/kg)	Inhouse S4a (LECO Trumac Analyser)	430 - 815	<1000
Available Phosphate (mg/kg)	** Rayment & Lyons 2011 - 9B2 (Colwell)	72.2 – 85.3	<80
PARTICLE SIZE DISTRIBUTION (PSD) RETAINED SEE NOTE 2			
Gravel (> 5.0 mm) (%)		2.21	
Gravel (3.5-5.0 mm) (%)		4.17	
Fine Gravel (2.0-3.4 mm) (%)	ASTM		
F1632-03 (2010)	15.67	<3	
Very Coarse Sand (1.0-2.0 mm) (%)		27.43	0-10
Coarse Sand (0.5-1.0 mm) (%)		31.88	< 25
Medium Sand (0.25-0.5 mm) (%)		12.82	40-60
Fine Sand (0.15-0.25 mm) (%)		3.35	10-30
Very Fine Sand (0.05-0.15 mm) (%)		1.82	5-30
Clay & Silt (<0.05 mm) (%)		0.66	< 3
PHYSICAL CHARACTERISTICS			
Saturated Hydraulic Conductivity (Ksat) (mm/hr)	ASTM F1815-11	308 - 329	100-300
D Values			
D15		0.43	
D85		2.63	

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