



Technical Data Sheet

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NB. The manufacturer reserves the right without prior notice to modify the composition of his products. Characteristics provided in this publication derive from data obtained under controlled test conditions. AXTER Limited makes no warranties, express or implied as to the properties and performance under any variations from such conditions in actual construction.

HYDROSOIL GREEN ROOF SUBSTRATE

Product properties

	Units	
pH ¹		7.7
Electrical conductivity (1:2.5 water)	µS/cm	1500
	mS/m	150

Organic matter²

Organic matter	% dry matter	3.5
Nitrogen as N	% m/m	
Total extractable	mg/l	1200
Ammoniacal Nitrogen NH ₄ ⁺	mg/l	13
Nitric nitrogen NO ₃	mg/l	2
NH ₄ + NO ₃ - N as N	mg/l	15

Phosphorus as P

Total extractable	% m/m	474
CAT-extractable ^{3,4}	mg/l	8

CAT - Extractable^{3,4}

Potassium as K	mg/l	310
Magnesium as Mg	mg/l	53
Iron as Fe	mg/l	19
Manganese as Mn	mg/l	8
Sulphur as S	mg/l	35
Copper as Cu	mg/l	0.15
Zinc as Zn	mg/l	6
Boron as B	mg/l	1.2
Cation Exchange Capacity	me/l	24

Particle size distribution (% air-dry sample passing)

16.0mm	100
8.0mm	100
4.0mm	91
2.0mm	7
1.0mm	4



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Air : Water Relations (%v/v)

<i>10cm (10 millibars) tension</i>	
Water Holding Capacity	24
Air Filled Porosity	50
<i>50cm (50 millibars) tension</i>	
Water Holding Capacity	24
Air Filled Porosity	49
Weeds & Seeds	Nil
Stability mg CO ₂ / gOM	1.3

Weight Saturated	kg / m ³	1000
Settlement⁵ Vegetated (non-vegetated)	%	Nil (Nil)
Nutrient Run-off⁴		
Nitric Nitrogen as N	ppm	0.1 (47)
Phosphorus as P	ppm	0.05 (14.5)

Notes

- 1 1:5 aqueous extract: this should not be compared with the pH of peat products (the optimal pH of peat products is much lower than for soils and composted materials).
- 2 Organic Matter (as loss on ignition / dry matter basis).
- 3 Plant available.
- 4 'CAT' – aqueous solution of calcium chloride + DTPA (cheating agent) - an extractant originally developed for soils and now specified in UK and European standards for composted materials (eg PAS 100) because it is more appropriate for most nutrients than the water-extraction method originally developed for peat products only.
- 5 After 6 months intensive irrigation.
- 6 At 0.98K Pa.

Hydrosoil Green Roof Substrate is a blend of well-matured green compost to PAS 100 standards and graded, dust-free reclaimed virgin brick fines. All materials are sustainable/recycled and UK-sourced for minimum carbon footprint.

Packaging

Tote bags: 1.0 m³
 20 litre heat sealed sacks (50 bags – 1m³ – per pallet).