

PRODUCT SPECIFICATION

LANDSCAPING AND GARDEN SOILS

Product Name: Lawn Mix

Product Code: SAM0250

Product Description: Soil blend which is suitable for application in domestic and commercial gardens.

Issue date:

June 2017

Characteristic & Unit		Requirement From AS 4419-2003	Typical Analysis
Description		Conforms	Yes
Bulk density	kg/L	>0.6 (organic soil) >0.7 (soil blend)	- 1.6
Organic matter content	%	15-25 (organic soil) 3-15 (soil blend)	- 2.6 %
Wettability	mm/min	> 5	10
pH		5.5 to 7.5	7.5
Electrical Conductivity	dS/m	<2.5 (organic soil) <1.2 (soil blend)	- 1.19
Ammonium-N	mg/L	< 200	73.0
Phosphorus P, Colwell	mg/L	< 3 for P sensitive plants (organic soil)	-
Phosphorus P, Colwell	mg/L	< 5 for P sensitive plants (soil blend)	<0.5
NDI₁₅₀		0-0.5	0.55
Toxicity	mm	≥ 70	70
Dispersibility		Water - treated CaCl ₂ – treated	Category 1 Category 2
Permeability (Hydraulic conductivity)	cm/hour	< 2 unsatisfactory 2-100 satisfactory > 100 unsatisfactory	- 70-75 cm/hr -
Texture		Soil texture classifications	Sandy loam
Large particles (bark, roots, stones etc.)	(sieve) mm	>20 mm	
Tolerance	(sieve) mm % mass	10-20 mm < 2 % for 20 mm sieve < 8 % for 10-20 mm sieve	<1 % 2 %
Chemical Contaminants (Includes Heavy Metals)		State guidelines for unrestricted use.	Passed Grade CI
Organic Contaminants		State guidelines for unrestricted use.	Passed Grade CI
Pathogens (Plant & Human Pathogens)		State guidelines for unrestricted use.	Passed Grade PI
Plant propagule content		No requirements (optional)	-

Note: Detailed typical analysis continued on next page

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Chemical Contaminants:		Grade CI Biosolids	
Constituents		Maximum allowable conc. in mg/kg dry solids	mg/kg
Arsenic	mg/kg	20	<5
Cadmium	mg/kg	3	0.1
Chromium Total	mg/kg	100	17
Copper	mg/kg	100	2
Mercury	mg/kg	1	0.02
Nickel	mg/kg	60	<1
Lead	mg/kg	150	1
Zinc	mg/kg	200	6
Molybdenum	mg/kg	4	<2
Selenium	mg/kg	3	<2
Organic Contaminants:			
Organochlorine (OC) Pesticides			
Aldrin	mg/kg	0.02	<0.01
BHC Total	mg/kg	0.5	<0.01
Chlordane	mg/kg	0.02	<0.01
DDD	mg/kg	0.02	<0.01
DDE	mg/kg	0.02	<0.01
DDT	mg/kg	0.02	<0.01
Total DDT Analogs	mg/kg	0.5	<0.01
Dieldrin	mg/kg	0.02	<0.01
HCB	mg/kg	0.02	<0.01
Heptachlor	mg/kg	0.02	<0.01
Chlorpyrifos	mg/kg	0.02	<0.02
Organophosphorus (OP) Pesticides			
Bromophos Ethyl	mg/kg	N/A	<0.05
Ethion	mg/kg	N/A	<0.05
Diazinon	mg/kg	N/A	<0.1
Malathion	mg/kg	N/A	<0.1
Fenitrothion	mg/kg	N/A	<0.1
PCB Total	mg/kg	0.3	<0.2
Pathogen Test :		Grade PI Biosolids	
Phytophthora (plant pathogen)		N/A	Not detected
Pythium (plant pathogen)		N/A	Not detected
Salmonella sp. (human pathogen)		< 1 Salmonella per 50 g	Negative
Thermotolerant coliforms (human pathogen)		<100 MPN Thermotolerant cfu/mL	<10

Authorised by: Maria Sevo, Quality Manager