

FINISHED PRODUCT SPECIFICATION

AS 4454 Composts, Soil Conditioners & Mulches has a Rotational Test Schedule

STANDARDS MARK COMPOSTED MULCH AS-4454 1999		
PRODUCT ID: <u>COARSE MULCH</u>		
Description: Composted or pasteurised organic material excluding plastic that is suitable for placing on soil surfaces.		
Characteristic & Unit	Requirement (From AS-4454/99)	Typical Analysis
Description	Conforms	Yes
Ph	5.0 – 7.5 pH units	7.5
Electrical Cond. dS/m	No limit	3.0
Phosphorous (P) Sol. mg/L	≤ 5 for P sensitive plants	5.6
Phosphorous Total %	≤ 0.1 for P sensitive plants	0.42
Ammonium-N mg/L	< 300	27
Ammonium-N plus Nitrate-N mg/L	No requirement	31
Total Nitrogen %	≥ 0.8	1.4
Organic Matter Content %	≥ 25	40.0%
Boron B mg/kg	< 200	20.0
Sodium Na %	No requirement	0.14
Wettability Minutes	No requirement	6 min
Toxicity Index %	No requirement	104%
Particle size grading: %		
Maximum size mm	Mulch ≥ 15	Mulch ≥ 15
Tolerance % mass	> 70% retained by sieve	70% retained
Total CaCO ₃ equivalent %	To be determined and stated if pH > 7.5	-
Chemical Contaminants includes heavy metals	National guidelines for unrestricted use.	Passed
Organic Contaminants	National guidelines for unrestricted use.	Passed
Moisture Content %	No requirement	30%
Contaminants %		
Glass,metal and rigid plastics >2mm	≤ 0.5	≤ 0.5
Plastics-light, flexible or film >5mm	≤ 0.05	≤ 0.05
Stones and lumps of clay ≥ 5mm	≤ 5	≤ 5
NDI ₁₅₀	> 0 if plant nutrition claimed > 0.5 if sand or gravel used in method.	0.60
Self Heating °C	No requirement	-

Note: Detailed results follow on next page.

Analysis results continued:
STANDARDS MARK COMPOSTED MULCH AS-4454 1999
PRODUCT ID: COARSE MULCH

Characteristic & Unit	Requirement (From AS-4454/99)	Typical Analysis
Description	Conforms	Yes
Chemical Contaminants:	Grade A Biosolids	
Constituents	Maximum allowable concentration in mg/kg dry solids	
Arsenic mg/kg	20	<5
Cadmium mg/kg	3	0.3
Chromium Total mg/kg	400	17
Copper mg/kg	200	188
Lead mg/kg	200	15
Mercury mg/kg	1	0.31
Molybdenum mg/kg	4	2
Nickel mg/kg	60	4
Selenium mg/kg	3	<2
Zinc mg/kg	250	166
Organic Contaminants:		
Organochlorine (OC) Pesticides		
HCB mg/kg	0.2	<0.01
BHC Total mg/kg	1.0	<0.01
Lindane mg/kg	0.2	<0.01
Dieldrin mg/kg	0.2	<0.01
Heptachlor mg/kg	0.2	<0.01
DDD mg/kg	0.2	<0.01
DDE mg/kg	0.2	<0.01
DDT mg/kg	0.2	<0.01
Total DDT Analogs mg/kg	1.0	<0.01
Aldrin mg/kg	0.2	<0.01
Chlordane mg/kg	0.2	<0.01
Organophosphorous (OP) Pesticides		
Bromophos Ethyl mg/kg	-	<0.05
Ethion mg/kg	-	<0.05
Diazinon mg/kg	-	<0.1
Malathion mg/kg	-	<0.1
Fenitrothion mg/kg	-	<0.1
PCB's Total mg/kg	1.0	<0.2
Pathogen Test:		
Phytophthora	-	Not detect.
Pythium	-	Not detect.
Salmonella sp.	< 10 Salmonella per 50g	Negative
Thermotolerant coliforms	<1000 MPN Thermotolerant coliforms p/g	0 MPN/g

Authorised by: _____

Date: _____