

PREMIUM PLANTER MIX (PPM Mineral)

PPM9 REPORT

2 samples supplied by ReGen Soils on the 3 July, 2023. Lab Job No. P2600.
Analysis requested by Declan McDonald. **Your Job: PPM Mineral.** Reissued on 21/07/2023
PO Box 58 ASCOT VALE VIC 3032
Analysed by EAL, Southern Cross University

Product Name:	Sample 2 PPM MINERAL	Guideline <i>AS3743:2003 Other Mixes</i>
Product Type:	Soil	
Manufacturing Site:	Ecodynamics	
Manufactured Date:	..	
Test Code:	CA-PACK-016	
Standard Applicable:	AS3743:2003	

Parameter	Method Reference	P2600/2	Regular
Air-filled Porosity (%)		11	≥ 13
Total Water Holding Capacity (%)	AS3743:2003 Appendix B	48	≥ 40
pH		7.10	5.3-6.5
Electrical Conductivity (dS/m)	AS3743:2003 Appendix D	3.22	≤ 2.2
Ammonium Nitrogen (mg/L N)		0.38	≤ 100
Nitrate Nitrogen (mg/L N)	AS3743:2003 Appendix D	212	..
Ammonium plus Nitrate (mg/L N)	Calculation - Ammonium + Nitrate	212	..
Calcium (mg/L)		591	≥ 50
Magnesium (mg/L)		118	≥ 15
Potassium (mg/L)	AS3743:2003 Appendix G	240	..
Sodium (mg/L)		142	≤ 130
Sulphur (mg/L)		385	..
Calcium/Magnesium Ratio	Calculation - Calcium/Magnesium	5.01	1.5-10
Potassium/Magnesium Ratio	Calculation - Potassium/Magnesium	2.03	..
Phosphorus (mg/L)	AS3743:2003 Appendix G	1.66	..
Zinc (mg/L)		3.07	0.3-10
Manganese (mg/L) <small>see note 5</small>		3.85	1-15 ^{see note 5}
Iron (mg/L)	AS3743:2003 Appendix G	38.0	≥ 25
Copper (mg/L)		0.18	0.4-15
Boron (mg/L)		0.40	0.02-0.65

Interpretation

These test results are the product of efforts to achieve a mineral-based blend with low slumping or volume loss.

The pH is near neutral at 7.1 and EC is above range (<2.2dS/m). The elevated EC is primarily being driven by high potassium, sulfur and calcium. These salts are not likely to have a detrimental effect on plants. Sodium is acceptable.

Nitrogen, potassium, sulfur and calcium are all high, mangesium is acceptable and phosphorus is low. Trace elements are acceptable.

This mix is suitable for plants with known phosphorus sensitivity. For all other plants, phosphorus should be added at 300g/m3 or 30g/m2.

Air-filled porosity and water holding capacity are acceptable.

The results of this testing show that a mineral-based variant of the PPM mix is largely compliant with AS3743 and will be appropriate for locations where longevity and minimal volume loss are requirements.