



PRODUCT SPECIFICATIONS

Mineral Composition

| | min% | max% |
|--------------------------------------|--------|------|
| Phillipsite (a zeolite) | 25 | 30 |
| Chabazite (a zeolite) | 5 | 10 |
| Palagonite (hydrated volcanic glass) | 50 | 60 |
| Olivine and altered olivine | 5 | 6 |
| Calcite | 5 | 6 |
| Gypsum | traces | 1 |

Chemical Properties

| | | |
|--------------------------|--------------------------------|---------|
| pH (H ₂ O) | 8.33 | |
| pH (CaCl ₂) | 8.03 | |
| Cation Exchange Capacity | 100 -120 | cmol/kg |
| Cation Selectivity | K = NH ₄ >> Na > Ca | |

Available Plant Nutrients

| | | |
|-------------------------|------|-------|
| Phosphorus P | 24 | mg/kg |
| Potassium K | 2950 | mg/kg |
| Calcium Ca | 5830 | mg/kg |
| Magnesium Mg | 1280 | mg/kg |
| Sulfate SO ₄ | 110 | mg/kg |
| Boron B | 4 | mg/kg |
| Copper Cu | 1 | mg/kg |
| Manganese Mn | 6 | mg/kg |
| Zinc Zn | 1 | mg/kg |
| Iron Fe | 80 | mg/kg |

Physical Properties

| <i>Texture</i> | | |
|--------------------------|------|-------------------|
| Sand (2.0 - 0.05 mm Ø) | 80.2 | % |
| Silt (0.05 - 0.002 mm Ø) | 11.8 | % |
| Clay (Ø < 0.002 mm) | 6.8 | % |
| Gravel (Ø > 2.0 mm) | 1.2 | % |
| Bulk Density | 1.3 | g/cm ³ |
| Particle Density | 2.77 | g/cm ³ |