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## Lutz Palm Spike Specifications

### MANGANESE SPIKE (#30190)

**Total Nitrogen (N)** ..... 4%  
 4% Ammoniacal Nitrogen  
**Total Manganese (Mn)** ..... 20%  
 20% Water Soluble Manganese  
**Sulfur (S)** ..... 16%  
 16% Combined Sulfur

**Derived From: Ammonium Sulfate and Manganese Sulfate.**

Weight: 5 oz / spike (145 grams)  
 Contents: 125 spikes & 15 caps per case.  
 Case Weight: ..... 44# (19.96 Kg)

### POTASSIUM-MAGNESIUM (#30192)

**Total Nitrogen (N)** ..... 6%  
 6% Nitrate Nitrogen  
**Soluble Potash (K2O)** ..... 20%  
**Magnesium (Mg)** ..... 7%  
 7% Water Soluble Magnesium  
**Sulfur (S)** ..... 20%  
 20% Combined Sulfur

**Derived From: Potassium Nitrate, Magnesium Sulfate.**

Weight: 5 oz / spike (143 grams)  
 Contents: 125 spikes & 15 caps per case.  
 Case Weight ..... 43# (19.50 Kg)

### MAGNESIUM SPIKE (#30191)

**Total Nitrogen (N)** ..... 4%  
 4% Ammoniacal Nitrogen  
**Total Magnesium (Mg)** ..... 12%  
 12% Water Soluble Magnesium  
**Sulfur (S)** ..... 20%  
 20% Combined Sulfur

**Derived From: Ammonium Sulfate and Magnesium Sulfate**

Weight: 5 oz / spike (143 grams)  
 Contents: 125 spikes/15 caps per case.  
 Case Weight:.....43# (19.50 kg)

### MAINTENANCE SPIKE (#30193)

**Total Nitrogen (N)** ..... 6%  
 4.2% Ammoniacal Nitrogen  
 1.8% Nitrate Nitrogen  
**Soluble Potash (K2O)** ..... 6%  
**Magnesium (Mg)** ..... 6%  
 6% Water Soluble Magnesium  
**Sulfur (S)** ..... 10%  
 10% Combined Sulfur  
**Copper (Cu)** ..... 0.5%  
 0.5% Water Soluble Copper  
**Iron (Fe)** ..... 1%  
 1% Water Soluble Iron  
**Manganese (Mn)** ..... 6%  
 6% Water Soluble Manganese

**Derived From: Ammonium Sulfate Potassium Nitrate, Magnesium Sulfate, Copper Sulfate, Iron Sulfate and Manganese Sulfate.**

Weight: 5 oz / spike (143 grams)  
 Contents: 125 spikes/15 caps per case.  
 Case Weight: ..... 43# (19.50 Kg)

Quality should be defined as "surpassing customer needs and expectations throughout the life of the product"

-- W . Edwards Deming

