

Leonardite, a natural form of humate, mined from Stoney Creek Mine

Leonardite Products Target Moisture: 24-28%

Radwag PMC 50/NH Moisture Analyzer Balance

Bulk Density: 51 pounds per cubic foot (816.94 kg/m^3 metric equivalent)

Typical Data - Random Sample

| Properties | As Received | Dry Weight | LBS. per Ton as Received |
|---|--|--|--|
| Moisture Total Solids Organic Matter Ash C:N Ratio Total Carbon pH | 22.4% 77.6% 58.0% 19.6% 44:1 34.66% | 74.74% 25.26% 44.66% | 1552.0 1160.0 392.0 |
| Nutrients | As Received | Dry Weight | LBS. per Ton as Received |
| Nitrogen (N) Total Organic (N) Ammonium Nitroger Nitrate Nitrogen (N) Sulfur (S) Calcium (C) Magnesium (Mg) Sodium (Na) | | 1.02% 0.96% 0.015% 0.04% 1.86% 3.13% 0.93% 0.180% | 15.8 15.0 .2 .6 28.8 48.6 14.4 02.8 |
| Micro Nutrients | As Received | Dry Weight | LBS. per Ton as Received |
| Iron (Fe) Manganese (Mn) Zinc (Zn) Copper (Cu) Boron (B) | 11200 ppm 195 ppm 61.7 ppm 22.1 ppm <100 ppm | 14433 ppm 251 ppm 80 ppm 28 ppm | 22.4 .4 .I |
| Humic Acid | 65.80% | Calif HA/JC (rev | 2:3-11-09) |
| Analysis above conducted | d bv Midwest Laboratorie | s, Inc. July 2022 | |

Analysis above conducted by Midwest Laboratories, Inc.

July 2022

Humic Acid Analysis by Motzz Laboratory, Inc., Phoenix, AZ, July 2022

| Moisture | 12.78% | AOAC 943.01 |
|--------------------|--------|--------------------------------|
| Humic Acid | 51.36% | ISO 19822 HPTA Approved Method |
| Hydrophobic Fulvic | 16.43% | ISO 19822 HPTA Approved Method |
| Acid Fraction | | |

Humic Acid Analysis by Thornton Laboratories., Tampa, FL, July 2022

| Humic Acid | 66.37% | JAOAC, 97(3) : 721-730 (HPTA) |
|-------------|--------|-------------------------------|
| Fulvic Acid | 10.32% | JAOAC, 97(3): 721-730 (HPTA) |

Humic Acid Analysis by A & L Western Agricultural Laboritories Inc., Modesto, CA, July 2022

| Solid | 18.87% | |
|-------------|--------|--------------------------|
| Humic Acid | 49.73% | Humic Acid % CDFA Method |
| Fulvic Acid | 12 52% | |

Ammonium Nitrogen, Nitrate Nitrogen, Phosphorous P205, Potassium K20, Magnesium, Chloride <1%.

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