

## Certifications

Black Earth Mini-Granule Coarse is:

Listed by OMRI



Registered with CFIA



Certified for use for NOP

Certified by the CDFA



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# Mini-Granule Coarse



## Benefits

- Minimum 80% Humic and Fulvic Acids Content
- Great for Broadcasting
- Improves Tilth
- 100% Organic
- Increases Microbial Activity
- Long Lasting Effect
- Easy Application with Minimal Dust
- Aids in Water Retention
- Natural Chelating Agent
- Breaks Down Heavy Salts

## Description

Our Black Earth Mini-Granule Coarse is a soil amendment, fertilizer enhancer, and growth promoter to plants and soil microorganisms. Unlike fertilizers it works to not only benefit the plant now, but also improve soil conditions for the future. It is made from a naturally occurring type of oxidized coal that is very rich in humified organic matter, humic

and fulvic acids, with minimal impurities. All of our products are backed by solid scientific research proving their effectiveness. We perform frequent quality control testing to ensure the quality and consistency of our products. 100% naturally organic, it is classed as a non-hazardous material and has extremely low toxicity values.

**Discover the benefits of Mini-Granule Coarse ►**

## Additional Information



uptake of nutrients and decreasing nutrient losses caused by leaching. In combination with fertilization, it allows you to get the most out of your fertilization program and may even reduce the amount of nutrients applied. It will contribute to improving soil quality, texture, water holding capacity and sustainability, while breaking down clay lattices and reducing sodium built up in soils.

In addition, humic and fulvic acids in our MG Coarse perform similarly to the plant growth hormone Auxin, which promotes plant growth and root development. This results in improved plant health and production of fruits and vegetables. It will also increase and enhance microbial activity aiding in the maintenance of healthy soils.

Our Mini-Granule Coarse contains humic and fulvic acids, which act as natural chelating agents binding to nutrients in the soil. Plants' roots absorb these humic acid-nutrient compounds effectively increasing the efficiency of plants'

## Technical Data

### PHYSICAL ANALYSIS

	Typical
Humified Organic Matter	> 80%
Ash	< 20%
Moisture	30 – 35 %
pH	3.5 – 4.1
Color	Brownish – Black
Bulk Density	Loose - 49 lbs/ft.3; 790 kg/m3 Tapped - 53 lbs/ft.3; 840 kg/m3
CEC	>600 meq/100 grams (D.M. Basis)

### SCREEN ANALYSIS

Tyler Screen Size	Typical %	Size mm
-6 to +10	=35%	3.353 to 1.999
-10 to +40	=55%	-1.999 to 0.419
-40	=10%	-0.4191

### Packaging Information

The packaging used by Black Earth Humic is specially designed for the unique physical nature of Humates. Humates are a hygroscopic material; they are always working to draw moisture from their environment. Therefore, Black Earth has worked with our packaging supplier to design a special bulk bag that has multiple features, such

as an internal liner. This internal liner enables the product to be stored in all weather conditions without impacting the moisture content of the material. This means that when we dry the product in the facility, it is delivered to your door at the same moisture content, resulting in more humic acid per bag.

### Available Packaging

- 50 & 55LB paper bags
- 50 & 55LB woven poly bags
- 2000,2205 & 2400lb tote bag
- Custom Labelling
- Custom Packaging

### Other Applications

- Hydro seeding
- Turf
- Soil remediation
- Erosion control
- Waste treatment
- Mineral feed supplement

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## Guaranteed Analysis

Contains:

**NONPLANT FOOD INGREDIENTS**

Humic Acids....80%

(A&L Analytical Method)

Total of Other Ingredients ....20%

(Inert Material)

Derived from Leonardite

## Application Rates

Mini-Granule Blend can be blended with fertilizer or compost, or applied directly to the soil. Soil tests are recommended for the most accurate application rates. When mixing MG Blend with other products, a small compatibility test is recommended. Generally, we recommend **100 – 400 lb per acre annually** (110 – 450 kg per ha) applied in **2 – 4 applications** between spring and fall:

### Agriculture

**Pre-Plant or At Planting:** Apply once or twice in the spring as mid row banding or side banding

**In-Season/Blending:** MG Blend is an excellent ingredient in fertilizer or compost blends to add natural organic material to the soil. Apply once or twice over the growing season. May also be applied directly to the soil.

**Post Harvest:** Apply once or twice in the fall to improve residue breakdown and soil quality for next year's growing season.

### Turfgrass

**Greens:** 15-20lbs/1000Ft<sup>2</sup> (7.5-10kg/100m<sup>2</sup>) annually, applied in 4-6 equal monthly applications.

**Tees & Fairways:** 10-20lbs/1000Ft (5-10kg/100m ) annually, applied in 4-6 equal monthly applications

**Hydroseeding:** Apply with mixture at an application rate of 400-600lbs per acre.

### Environmental

**Soil Remediation:** Broadcast at 500lbs per acre annually, applied in 3 equal applications over the course of a year.

**Waste Treatment:** When applying Humates for the purpose of waste treatment, please contact your Sales Rep, as this will be specific to your situation.

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Black Earth Humic Production Facility in Ryley Alberta, Canada



## Chemical Analysis Mini-Granule Coarse

Parameter	Level	Unit
Humalite	86.73	% (Colorimetric)
pH	3.9	n/a
Ag	3	ppm
Al	3.74	%
As	2	ppm
Au	<1	ppm
B	733	ppm
Ba	273	ppm
Bi	<1	ppm
Ca	1.24	%
Cd	<1	ppm
Co	<1	ppm
Cr	7	ppm
Cu	8	ppm
Fe	0.37	%
K <sub>2</sub> O	0.28	%
La	4	ppm
Mg	0.24	%
Mn	208	ppm
Mo	2	ppm
Na	0.35	%
Ni	3	ppm
P	0.01	%
Pb	11	ppm
Sb	1	ppm
S	0.5	%
Sr	197	ppm
Th	8	ppm
Ti	0.07	%
U	<1	ppm
V	13	ppm
W	2	ppm
Zn	5	ppm

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Sources: Loring Laboratories, May 2013.

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