

# ACTIV<sup>6</sup>80 XP

Powered By black earth

Your Choice for Pellet  
or Liquid Manufacturing

## WHY USE ACTIV80 XP?

### Sized for Use.

Just the right size whether you need a product for your liquid or pellet manufacturing.

### Canadian Source.

From the highest quality, most consistent source of humic, **ACTIV80 XP** is high in humic acid but low in ash and heavy metals.



## BENEFITS OF HUMIC ACID / FULVIC ACID



### BIOLOGY

Provides a food source for soil microbes, increasing their activity in mineralization and crop residue breakdown processes.



### STRUCTURE

Improves soil tilth and aggregation through improving aeration and water movement in the soil.



### CHEMISTRY

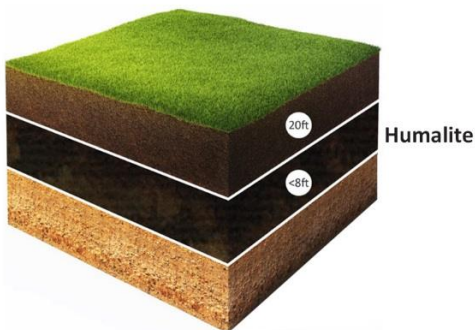
Increases the soil's Cation Exchange Capacity thus improving nutrient availability. Because it is amphoteric (neutralizes), it also impacts pH challenged acidic or alkaline soils, creating a more seed friendly environment, thus improving seed germination and viability.



### NUTRITION

Creates nutrient bridges and displaces nutrients off of clay through electrostatic charges, making nutrients more plant available.

## WHAT DIFFERENTIATES BLACK EARTH'S HUMICS FROM OTHER HUMIC PRODUCTS?

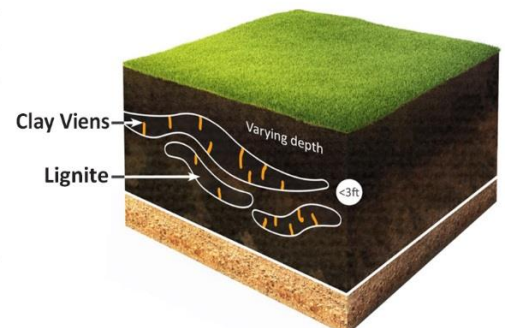


Black Earth Humic is unique because of its source. Mined in Alberta, Canada, our source was developed from flora with a very high nutritional value with freshwater in pre-glacial times. When the glaciers re-ceded, this layer was also exposed to oxygen, transforming it from sub-bituminous coal to weathered sub-bituminous coal, which when now used makes the humic substances much more available.

This layer is also a consistent layer, making it easy to mine and of consistent quality. Because it originated predominantly of plants, it also has low ash and heavy metal content. Because of these unique features, this area's source is technically called, "humalite".

Conversely, most other sources of humic acids come from "leonardite" or "lignite" sources. Because they were developed through salt water deposits and often a mix of flora and fauna sources, they usually naturally have higher ash and heavy metal content than humalite. Their humic and fulvic acid contents are also generally not as high nor as consistent.

Because of how the deposits were formed, they are not in an even strata and can wave into multiple layers, making mining more difficult. Quality and consistency of mined product can therefore vary greatly from geographical location and depth within a mine.



## PRODUCT INFORMATION

### PACKAGING:

**International:** 25 kg (55 lb) bags or 907 kg (2000 lb) mini-bulk bags

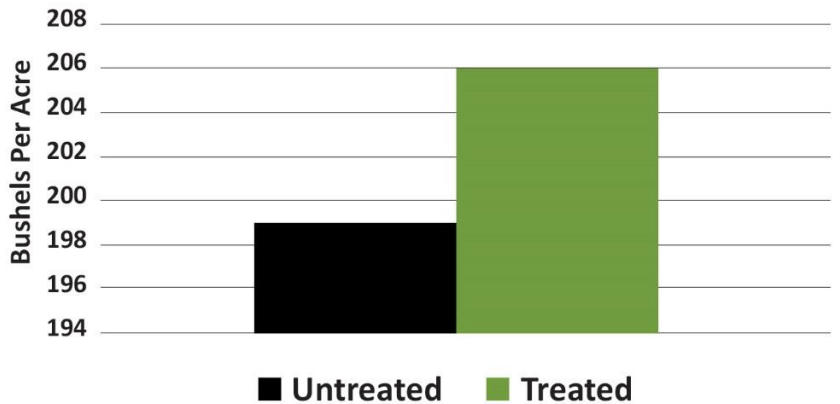
**North America:** 25 kg (55 lb) bags, 907 kg (2000 lb) or 1089 kg (2400 lb) mini-bulk bags

### STORAGE:

**Small bags** – store indoors. Avoid water and high humidity.

**Mini-bulk bags** – may be stored outdoors up to 1 year if covered. Do not place directly on ground.

### Results of 2017 Corn Yield Trials with Black Earth Humics



## TECHNICAL DETAILS

### Content Analysis

Humic Acid	80%, (Colorimetric method)
pH	3.5 – 4.0
Moisture	28%
Colour	Black
Type	Powder
Bulk Density	798 kg/m <sup>3</sup> or 50 lbs/ft <sup>3</sup>

### Particle Size

Typical%	Mesh Size	Millimeters
9%	40 to 100	0.42 to 0.06
41%	100 to 200	0.06 to 0.03
49%	<200	< 0.03

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