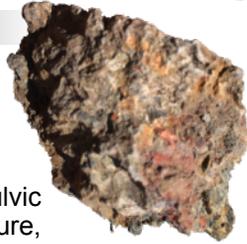




## Description

**Commercial name: AHF-325**  
**Active ingredient: Leonardite**  
**Formula:  $Si_2(KAl_2AlSi_3O_{10})$**

The leonardite is a mineral source of humic and fulvic acids, ideal for amending eroded soils in agriculture, besides retaining moisture and providing some natural nutrients to the plant.



## Composition

ELEMENT	SOLID %	SOLUBLE %
Carbon (C) .....	3.07	NA
Nitrogen (N) .....	3.76	NA
Sodium (Na <sub>2</sub> O) .....	0.24	1.86
Magnesium (MgO) .....	1.05	12.4
Aluminium (Al <sub>2</sub> O <sub>3</sub> ) .....	20.14	NA
Silicon (SiO <sub>2</sub> ) .....	43.08	NA
Potassium (K <sub>2</sub> O) .....	4.39	1.56
Calcium (CaO) .....	1.30	NA
Iron (FeO) .....	4.09	NA
Titanium (Ti) .....	0.43	NA
Humic acids .....	0.78 g/100ml	
Fulvic acids .....	10.69 g/100ml	



\*The soluble basis analysis reflects the real available percentage, since the way the plants get their nutrition is by a charge differential in the elements; this is, by cation exchange means, which in order to take place, need the right temperature, pH and humidity.

## Physical properties

Color: Dark brown.  
 Moisture: 5% maximum.  
 Cation Exchange Capacity: 22.1 meq/100 gr (Ca)  
 Hardness: 3.5 Moh's  
 Solubility: INSOLUBLE (>0.01%)

## Presentation

**Available mesh:**  
 AHF-006: mesh 4x10 (sizes from 2 to 5mm)  
 AHF-018: mesh 30x100 (0.2 to 1.8 mm)  
 AHF-325: mesh 100x325 (0.1mm to 45 microns)

**Package:** polypropylene 50 kg sacks.



## Benefits

- It is completely natural.
- It's environmentally friendly since it doesn't salinize nor erodes the soils.
- Levels the pH.
- Retains moisture for a longer period of time.
- It's a slow release nutrition source.
- It's compatible with chemical and organic fertilizers.
- It can be applied in all type of soils and climates.
- It's ideal for all crops, since it contains micronutrients that complete the nutrition.

## Recommendations

Clayey soils .....	50 kg/Ha
Loamy soils .....	100 kg/Ha
Sandy soils .....	150 kg/Ha

For soils poor in organic matter (below 3%), increase the recommended dosage in 75% for each type of soil. It is suggested to apply, whenever possible, based on a soil analysis in order to get the best results out of the product.

For starter fertilizer mixtures, from 50 to 150 kg can be added per ton.

## Precautions

This product is NOT food grade; it is not suggested to ingest. Since it can cause skin dryness and powder lungs, it is recommended to employ special safety equipment for handling: overall and gloves, respirator and goggles. It is NOT corrosive nor toxic, although it is volatile. In case of eye or skin contact, wash with abundant water. Keep away from the sun and moisture, preferably on pallets. Dispose the package in an appropriate place, ensuring to not pollute the closest water bodies.