



## CHARACTERISTICS

**3F Fulvate®** is a concentrated, soluble powder - the most versatile and productive input in agriculture, in freight friendly form. A soluble, yellow-brown powder containing high content fulvic acid and organic matter, a material with exceptional bio-stimulant potential. This product has a phenomenal nutrient-loading capacity, related to a CEC of 1400. This product is 85% soluble, and the insoluble component presents as a very finesilt, which may need to be screened out when used with drip irrigation. However, the small particle size does not appear to cause blockage with most spray equipment.

### 3F Fulvate® (Bio Fulvic Acid 90%)

This product is a kind of short carbon chain molecule extractible from the natural vegetable mineral. It is of high loading capacity and biological activity. It can be used in the field of agriculture and horticulture.

#### Benefits in agricultural use include:

- Chelate constant and micronutrients matter and makes them more available for plant utilizations.
- Anti-drought
- Prevent and cure the plant pathogen
- Stimulate the micro cosmic biological activity
- Slow release fertilizer
- Enhances the uptake of available nutrition
- Improve the fertilizer and pesticides
- Improve soil structure
- Promote residue decomposition
- Enhance plant germination and growth

#### Guaranteed Analysis w/w

Organic Matter	90% min
Total Fulvic Acid	80% min
Potassium (as Potassium fulvate)	12% min
Moisture	4.0% max
Calcium Oxide	4.0% min
Particle Size	Very fine powder
Appearance	Yellow brown

### Test of Speed of Penetration

Absorption after 68 minutes

Foliar Fertilizer 500 ppm

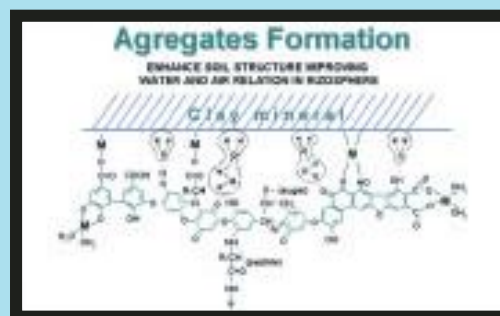


Intial Time

Foliar Fertilizer 500 ppm  
+ 3F Fulvate 150ppm



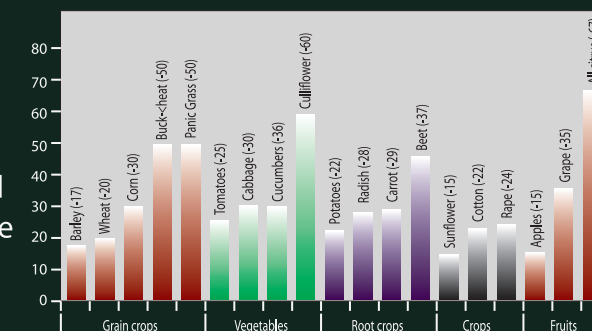
After 68 minutes  
The absorption has been completed



Likewise, the use of 3F Fulvate® in agriculture improves the structure of soil, retaining, encouraging aeration of the root and providing the plant with nutrients, including nitrogen, phosphorous, potassium, magnessium, sulfur and micronutrients. It contributes to the conversion of minerals from non-assimilable to soluble form though the release of carbonic gas.

## BENEFITS

- Soluble 3F Fulvate® powder are identical to those of Fulvic 1400™.
- A power ful organic electrolyte, which can balance and energise all cells (an electrolyte is a substance soluble in water which is capable of conducting an electrical current). The physical well-being of plants and microbes is determined by proper electrical potential.
- Features a unique capacity to dissolve minerals and trace elements. This feature has tremendous importance for fast-tracking the plant availability of rock minerals, rock phosphate and lime.
- NeuFulvate® is a potential, natural chelating agent, converting metallic elements in to readily absorbable, bio-available nutrition, and its very low molecular size enables fulvic-chelated minerals rapid entry through plant walls.
- 3F Fulvate® is the ultimate nutrient stability facilitator, as it has a phenomenal CEC of 1400.
- Enhances cell division and elongation. Root grow this magnified with obvious benefits for root crops.
- NeuFulvate® can detoxify pollutants in the soil. They absorb poisons (reducing soil-life damage) and catalyse the rapid breakdown of the toxins.
- 3F Fulvate® offers drought resistance, due to improved moisture storage and because it can build brix levels. High brix plants are less prone to wilting.
- 3FFulvate® is responsible for an increase in stomata opening and transpiration and assists plant respiration as well as improving the respiration of beneficial micro-organisms.
- 3FFulvate® directly influences numerous enzymatic processes and promotes the plant in many ways.



### Application Rates

**Fertigation:** 500 g - 1 kg per ha

**Foliar:**

**Horticulture:** 300 – 500 g per ha

**Broadacre:** 80 – 150 g per ha

### Home Garden Rates:

Stir in 1 heaped teaspoon in a watering can and apply to 10 square metres.



- 3F Fulvate® can interact with sunlight to enhance photosynthesis. This can be particularly valuable during prolonged cloudy periods.
- 3F Fulvate® increases the permeability of plant membranes, improving the uptake of nutrients.
- No withholding period.

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