

Quantum H™

QUANTUM H™ Including this powerful liquid humus with fertilisers increases fertiliser efficiency and helps retain the fertiliser ingredients within the plants rooting zone.

QUANTUM H™ THIS POWERFUL LIQUID HUMUS FOR YOUR SOIL AND PLANTS IS DERIVED FROM OUR GRANULAR AGRIPLUS CERTIFIED ORGANIC PRODUCT.

Sourced from USA freshwater deposits of Leonardite, the best and most concentrated sources of humic acids believed to contain the world's highest Fulvic content. Humates are the most natural, organic way to provide plants and soil with a concentrated dose of essential nutrients, vitamins and trace elements. They are complex molecules that exist naturally in soils, peats, oceans and fresh waters.

Leonardite is the completely decomposed remnants of living organisms derived from 70 million years of humification. Like manures and other organic compounds used to build richly fertile compost, so Leonardite is the end result of nature's own composting derived at a time when the earth had minimal pollutants.

As a comparison, peat is derived from only a few thousand years of decomposed organic matter. Humic acid will help grow plants like never before by reinforcing the humus fraction in your soil, the biologically active proportion of organic matter.

The structure of Quantum H™ allows both negative and positive charged nutrients to be held, keeping a larger percentage of nutrients water soluble and available to the plant and increasing the effectiveness of inorganic fertiliser applications.

Quantum H™ also provides a superior environment for soil microorganisms which are beneficial in nutrient recycling, plant growth promotion and reducing seedling disease.

HOW QUANTUM H™ WORKS CHEMICALLY

- ✓ Retains water-soluble inorganic fertilisers in the root zone where they are released to plants
- ✓ Converts several elements into "plant-available" forms
- ✓ Increases cation exchange capacity (CeC)
- ✓ Improves buffering properties of soil
- ✓ Chelates metal ions in alkaline conditions
- ✓ Raises nitrogen profile in soil

HOW QUANTUM H™ PHYSICALLY

- ✓ Increases water-holding capacity of soil
- ✓ Increases soil aeration
- ✓ Improves soil friability (ability to crumble) for less root resistance
- ✓ Improves soil structure

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HOW QUANTUM H™ WORKS BIOLOGICALLY

- ✓ Increases root growth and development, thereby increasing dry matter content
- ✓ Improves seedling growth at emergence
- ✓ Increases permeability of plant membranes
- ✓ Increases plant respiration
- ✓ Stimulates growth of beneficial soil microorganisms
- ✓ Aids photosynthesis
- ✓ Acts as an organic catalyst
- ✓ Stimulates plant enzyme activity



Quantum H reduces the toxicity and leaching of chemical compounds into subsoil water and maximises fertiliser efficiency by holding major plant nutrients in a molecular form which reduces their solubility in water. These binding processes reduce leaching nitrogen into the subsoil and help prevent volatilization into the atmosphere.



HOW TO USE QUANTUM H™

- ✓ Can apply with fertiliser or on its own
- ✓ Can use at any time of the year, on all plants
- ✓ Can apply to all crops, including vegetable crops, trees and vines
- ✓ Can use on all soil types
- ✓ Compatible with almost all fertiliser, nutrients, pesticides, herbicides, fungicides and defoliants
- ✓ Staining may occur, we suggest a small trial if concerned

GENERAL DIRECTIONS OF USE

TYPICAL APPLICATION: 3-6 litres per hectare in enough water to provide thorough coverage or 1000 litres of water, reapplying 2-6 times during the growing season.

SOIL APPLIED: Apply 6-10 litres of Quantum-H per Hectare. (preferably apply over multiple applications). It may be water run, side dressed, mixed with soil applied liquid nutrients or sprayed directly on the soil.

ADDED WITH NUTRIENTS: Apply 2-4 litres of Quantum-H per Hectare mixed with the liquid nutrients. Add Quantum-H to a partially filled tank. Include Quantum-H with every application.

SPRINKLER OR DRIP IRRIGATION: Smaller amounts of Quantum-H may be applied in every irrigation instead of only one application. Quantum-H is not corrosive to pipes or nozzles and will not plug them.

TRANSPLANTING OR CUTTING: Mix 4 litres of Quantum-H per 750 litres of solution.

AVAILABLE PACKAGING SIZES: ☐ 1L ☐ 4L ☐ 20L ☐ 200L ☐ 1000L