



PHYSIOCAL
CALCIMER TECHNOLOGY

RAPID REACTING AVAILABLE CALCIUM FROM THE SEA



PHYSIOCAL[®]

PhysioCal[®] contains a naturally soft and porous marine calcium source called Calcimer. This unique porosity and surface area allows PhysioCal[®] to be 5 times more soluble and 4 times more available than other liming materials, saving time and money. Further, PhysioCal[®] is different from traditional lime based soil conditioners in that it contains the biostimulant Humistim Together, the Calcimer and Humistim work to stimulate soil microbes to breakdown organic material into plant available nutrients, with an enhanced micro pH, and more complete nutrition with additional N, Ca, S, and Mg.



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4% Ammoniacal Nitrogen, 23% Calcium, 1% Magnesium, 4.5% Sulfur, 0.15% Boron, 0.2% Chloride, 0.1% Iron, 0.35% Sodium, 0.25% Zinc

Key Benefits:



Stimulates Soil Microbes.
Without Affecting pH



Mineralizes Nitrogen



Improves Soil Fertility

Whats in It?



Calcimer Technology

4 Times More Available 5 Times More Soluble
Calcium Source



Humatism

Humic Acid + Fulvic Acid
Microbial activator



Nitrogen & Sulfur

4% Ammoniacal N, 4.5% Water Soluble S

Application Rates:

Maintenance Rate: Apply 50 - 100 Lb/Acre

Aeration Rate: Apply 400 Lb/Acre Every 3 Years

RAPID REACTING AVAILABLE CALCIUM FROM THE SEA

PhysioCal's® calcium source is 5 times more available than standard limestone products.

PhysioCal® is enhanced with Humistim, a Sugar and Carbohydrate complex. Humistim activates naturally occurring microbes in your soil. Increased soil microbes populations will result in:

- Increased nutrient retention and uptake
- Improved soil structure
- Better decomposition of organic matter, increasing nutrients available
- Denser root system

Humistim has shown the ability to increase soil microbe populations by 4.8 times in just 10 days.

Naturally occurring Bio-Stimulants found in PhysioCal's® calcified seaweed include: Cytokinins, Gibberellins and Auxins. These plant hormones (messengers) trigger enzyme production, which in-turn stimulate:

- Root development
- Drought resistance by improving defense systems against oxidative stress.
- Microbe reproduction.

PhysioCal® contains a Micro-Nutrients package that is unique and not found in other products. Quality Healthy Soil is a balancing act with the nutrients. Nitrogen, Phosphorus and Potash don't act alone, but work in synergy with micro and trace elements. If you have a deficiency in one element, it affects how the others function. PhysioCal provides these elements in a balanced portion.

University Tested

PhysioCal® Field Trial - The Pennsylvania State University – Valentine Research Center

- 39% increased shoot density
- 19% Increased root length density

PhysioCal® Field Trial – University of Georgia

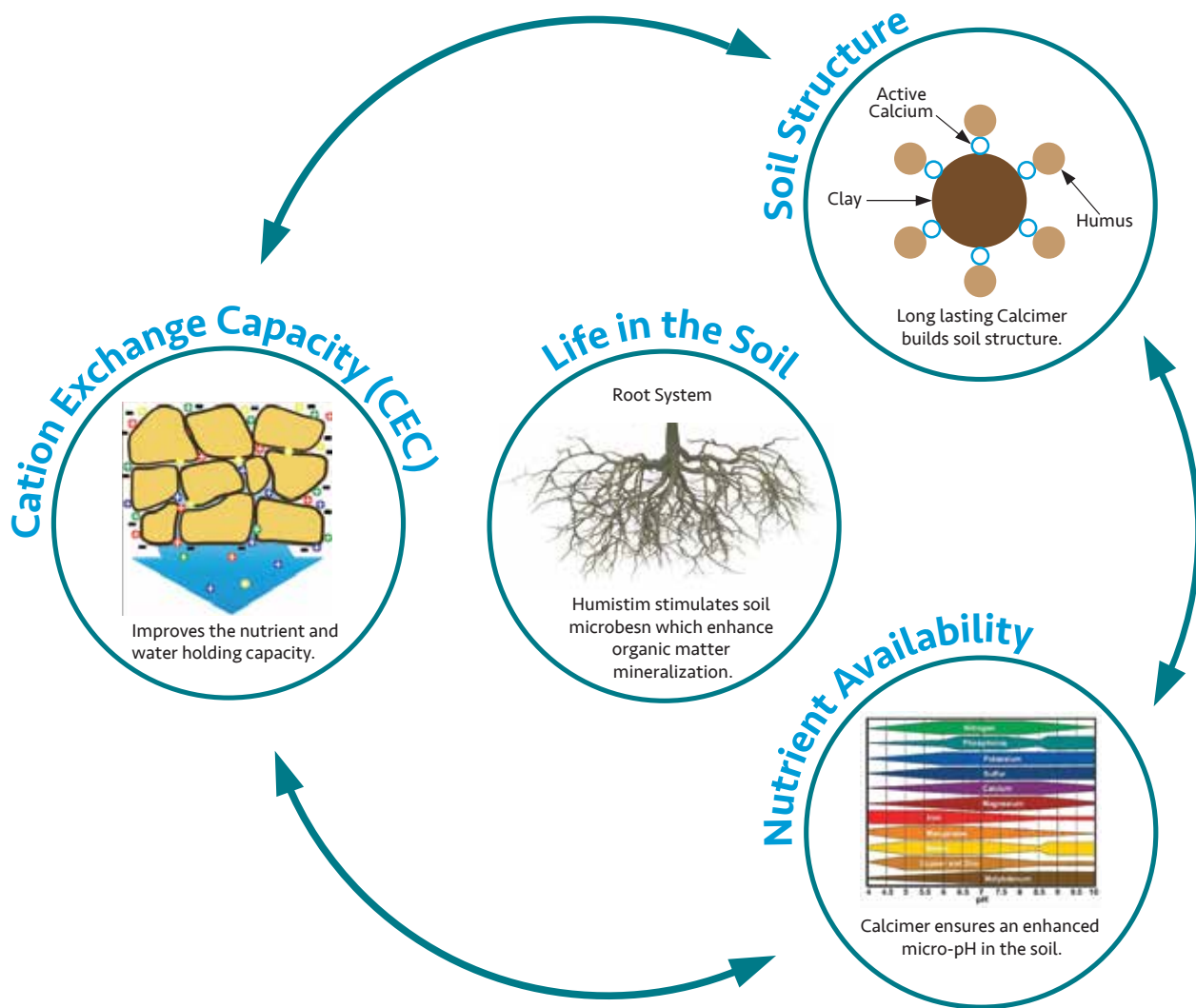
- 13.9 % Root increase
- 3.98% in plant stand

PhysioCal® Field Trial – University of South Florida

- 9.9% increase in root bio-mass
- 5% increase in plant stand

CALCIMER AND HUMISTIM

EFFECTS ON PLANTS AND SOILS



Calcimer with Fertilizer

Nitrogen, Phosphorus and Potash do not act alone but in synergy with secondary and trace elements.

Benefits: Providing the optimal ratio of macro and micro-nutrients ensures optimal uptake efficiency.

PhysioCal® Plus Fertilizer Analysis

0-0-0 (100% PHYSIOCAL®)

4-0-0 (100% PHYSIOCAL®)

4-3-8 (40% MOST) 40% PHYSIOCAL®

10-0-5 (30% XCU) 50% PHYSIOCAL®

*9-0-4 W/PALEO™ (35% XCU) 22% PHYSIOCAL®

*8-12-12 W/PALEO™ (20% XCU) 50% PHYSIOCAL®

*Paleo™ is a complex carbon based Humic, Fulvic and Ulmic acid that aids in soil structure and nutrient uptake.



PHYSIOCAL[®]

PhysioCal[®] is a unique source of calcium, micronutrients, carbohydrates and fertilizer that provides multiple actions in the soil, microbes and turf.

Let's compare PhysioCal[®] to what's in the bags of the leading enhanced Calcium products.

	PhysioCal [®]	PhysioCal Zero [®]	Gypsum [®]	Verde-Cal G [®]
Analysis	4-0-0	0-0-0	0-0-0	0-0-0
Calcium %	23%	23%	20%	22.5%
SGN	250 SGN, 125 SGN	70 SGN	250 SGN, 100 SGN	85 SGN & 185 SGN
Sieve Analysis Before Granulation	100% Passing 400 Mesh	100% Passing 400 Mesh	55% Passing 200 Mesh 80% Passing 50 Mesh 100% Passing 8 Mesh	75% Passing 40 Mesh 90% Passing 10 Mesh 100% Passing 4 Mesh
Active Ingredient	Calcified Seaweed	Calcified Seaweed	Calcium	Calcium
Micro Nutrients	Mg, S, B, Cu, Zn, Cl, Fe Na	Mg, S, B, Cu, Zn, Cl, Fe Na	S	S
Bio-Stimulants	Cytokinin, Gibberllins, Auxin, Humistart	Cytokinin, Gibberllins, Auxin, Humistart	Not on the label	Trihydroxycarboxylic Acid

Plant available calcium is a necessity in the health of your turf.

- Plays an essential role in germination
- Improves cell division in roots and plants
- Stimulates root and leaf development.
- Main component of cell membranes, cell walls, strengthening all plant structures
- Vital in balancing soil pH



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GOLF

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