

EcoSand[®]

Organic Soil Amendment



The Corales Golf Club designed by Tom Fazio at the Puntacana Resort & Club

Zeolite Ion Exchange Fertilizer

Permanent fertility increase:

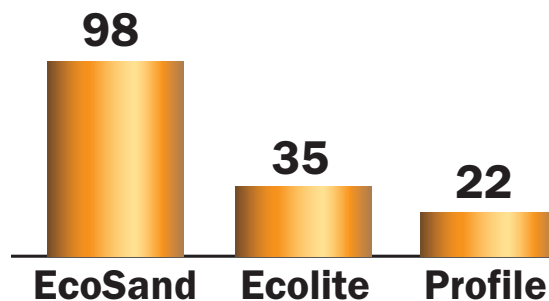
- ◆ Increases cation exchange capacity
- ◆ Supplies potassium and trace elements
- ◆ Improves water holding and drainage
- ◆ Improves NPK utilization

EcoSand, an organic natural zeolite amendment, adds fertility and does not decompose. High available potassium, low sodium, and ideal particle size further enhance the benefits of EcoSand.

Cation Exchange Capacity (CEC)

A University of Florida PhD thesis reported that EcoSand has the highest CEC of the commercial soil amendments.

Cation Exchange Capacity



(Shaddox, T. (2004) Ph.D. Thesis. University of Florida: US)

Caution: confirm the claims of equivalent to or higher CEC than EcoSand. A simple side-by-side CEC test at your soils lab will tell the story.

EcoSand's low sodium level of 0.44% as sodium oxide insures that they will be no salinity issues.

EcoSand's CEC adds fertility by retaining and slowly releasing potassium and ammonium ions. Nutrient losses from leaching are dramatically reduced, and environmental pollution is lessened which means more potassium and ammonia are available for turf and plant growth.

Organic

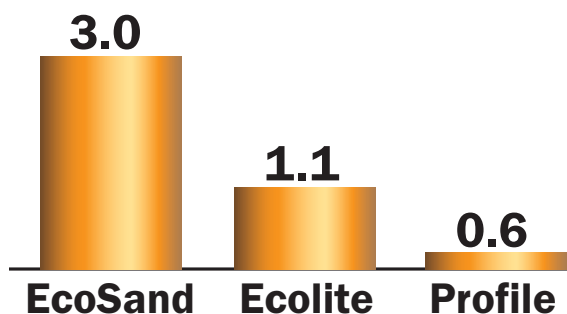
EcoSand is organic and OMRI listed as a natural zeolite soil amendment.



Improves NPK Utilization

EcoSand is a permanent reservoir that holds and slowly releases potassium and ammonium ions. Clay and soil colloids do not have the preference to hold potassium and ammonia as EcoSand. EcoSand is naturally loaded with a high level of slow release and plant available potash.

Available Potash (% K₂O)



(A & L Plains Agricultural Laboratories)

Ammonia nitrogen is needed to load the EcoSand reservoir and should be included in the fertilizer program upon initial installation. EcoSand will load with about 0.5% ammonia nitrogen.

By ion exchange, EcoSand slowly makes insoluble phosphate in the soil available to the turf and plant.

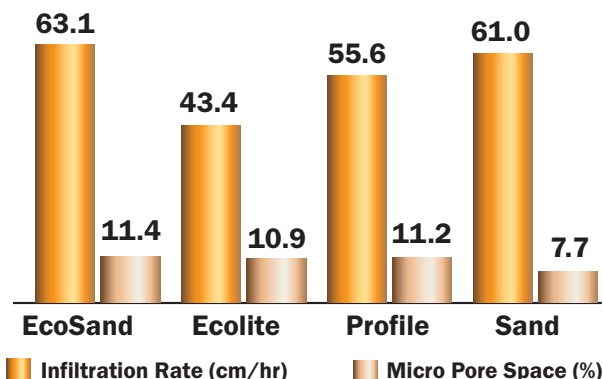
Supplies Trace Elements

Many of the 75 plus elements in EcoSand are in large enough quantities to be a source to replace depleted trace elements. For more information on trace elements, visit the EcoSand website.

Retains Water and Improves Infiltration

EcoSand's huge surface area (143,000 sq ft/lb) enables the retention of more water than the smooth sand surface (225 sq ft/lb) and increases water holding (micro pore space). University of Florida testing showed that a 15%/85% EcoSand/sand mix meets USGA greens specifications and gave the following results:

Physical Properties 85:15 Mix



(Shaddox, T. (2004) Ph.D. Thesis. University of Florida: US)

Normally, increasing the flow through the root zone leads to reducing the water holding capacity. The rough and porous surface of EcoSand holds more water in the soil.

Examples of EcoSand use are: the construction of the Fazio Corales Golf Course at the Puntacanna Resort and Club in the Dominican Republic and the Kangle Garden International Golf Club, Wanning, Hainan Providence, China and the rebuild of the Jefferson Lakeside Country Club, Richmond, Virginia.

Physical Properties

- COLOR: Natural light green
- DENSITY: 55 pounds/cu ft (0.88 g/ml)
1,500 pounds/cu yd (880 kg/cu m)
- SIZE: 14 x 40 mesh
88 SGN (0.88 mm)

Use Recommendations

TURF AND GOLF COURSES

- Aerification: 75 to 150 lbs/1,000 sq ft
- Top dress: 50 to 100 lbs/1,000 sq ft
- Construction: 5 to 15% by volume

LAWN

- New: 20 lbs/1,000 sq ft
- Existing: 5 to 10/1000 sq ft spring and fall



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