

Foremost Environmental Solutions



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ISOLITE®CG - Salts Interaction

Test Description:

Plant: Leafy Vegetable
Culture: Control Culture: sand from Tottori sand dune
Test Culture: mixture of sand and Isolite®CG at a 1:1 ratio
Irrigation: fresh water was prepared from sea water by reverse osmosis.
Salt waters with three different concentrations (1000ppm, 2000ppm, 5000ppm) were made by diluting sea water with the prepared fresh water. These four conditions were used for the experiments.
Results: Weight per 10 plants (g)

		Salt water (salt concentration:PPM)		
	Fresh water	1000 ppm	2000 ppm	5000 ppm
sand only	214.2 g	164.1 g	159.3 g	93.8 g
sand + Isolite®CG	384.9 g	330.9 g	304.8 g	237.1 g

Even at 5000 ppm salts, the Isolite®CG plot displayed healthier plant growth than the sand-only plot irrigated with fresh water.

Testing done by: Institute of sand dune development, Tottori University, Department of Agriculture. (Japan)

Isolite®CG Properties

Manufacturing Processes: made from **diatomaceous earth** and small amount of clay particles (porous ceramic), extruded for size consistency, and dried using proprietary combustion

Water Retention: absorbs and wicks water exceedingly well - does not swell or soften, water is released slowly

Chemically inert Particle Density: 2.27 (compared to 2.56 for sand)

Pore characteristics: continuous, interconnected and open ended; thereby permitting easy inoculation with microbes

Pore size: 0.1 to 2 microns with 30% being over 1 micron