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Container, Planter, and Rooftop Garden Soil FEATURING ISOLITE®CG - PLANTER SOIL AMENDMENT

ISOLITE helps Bonsai, Orchids, Bromeliads, African Violets, and virtually all plants grow stronger, better, and healthier by making moisture more readily available to the roots and increasing available oxygen in the soil, while conserving water and improving drainage.

Q. What are the best applications of ISOLITE®CG?

A. There are many, but some of the best uses for ISOLITE are above-ground containers and planters, flower window boxes, roof-top gardens, square foot gardens, hanging baskets, whiskey barrels, terrace gardens, and flower pots. These applications often involve severe climatic conditions because they are exposed to extreme heat and freezing weather.

Q. Why does ISOLITE®CG work well under these conditions?

A. Because of its internal pore space, ISOLITE®CG grabs onto water that is normally lost to gravity. ISOLITE®CG holds its own weight in water and most of this water is metered out to the plant later. The water in the ISOLITE®CG granules acts as insulation for the roots. When the harsh sun hits these exposed planting scenarios, the soil will not dry out so quickly and the roots won't have to go through detrimental wet/dry cycles. Another benefit of keeping the watering regime more even is that the edges of these planters or pots will not pull away from the edges. In peat-based soil mixes, a lot of water goes down the edge of the container, leaving the rest of the soil dry.

Q. How much ISOLITE®CG do I use for these applications?

A. The ordinary amount you use is 1 part ISOLITE, to 9 parts potting soil. Under these extreme conditions, you should probably think about using 1 part ISOLITE, to 4 parts potting soil. Any kind of soil (preferably a soil without perlite or vermiculite) can be used, even native soil, because the ISOLITE®CG replaces peat as the water-holding component of the planter mix.

Q. Will I have to use ISOLITE®CG in these planters again next year?

A. No. Once you have the ISOLITE in the mix, you can re-use this ISOLITE®CG -amended soil forever. ISOLITE®CG is very cost-effective when viewed over the long range.

Q. I have never heard of ISOLITE®CG before. How can I be sure that this amendment is for me?

A. In the past year, well over 2 million pounds of ISOLITE has been specified by Landscape Architects and Golf Course Superintendents. ISOLITE®CG has been used successfully for well over 15 years, and most of our customers have specified ISOLITE®CG for past projects.

Nurseries - Greenhouses & Backfill Mixes

5 % Isolite = 45 lbs./cubic yd. = 58 lbs./cubic meters = 26.5 kg/cubic meters

10 % = 85 lbs./cubic yd. = 110.5 lbs./cubic meters = 50 kg/cubic meters

15 % = 130 lbs./cubic yd. = 170 lbs./cubic meters = 77.3 kg/cubic meters

Generally, ISOLITE®CG can be used instead of perlite, vermiculite, wetting agents, etc. Isolite can greatly increase the shelf life and can keep plants from drying out so fast, as is the case with most peat-based mixes.

IMPORTANT:

NOTE: ISOLITE®CG must be mixed homogeneously with soil or with other soilless media ingredients in order to produce optimum results.

ISOLITE's Physical Properties, Characteristics and Architectural Specifications

- Porous Ceramic: Main component is diatomaceous earth
- Specific Surface Area - B.E.T. method - 4.6 m² / g
- Bulk Weight is approximately 850 pounds per cubic yard, or 32 pounds per cubic foot.
- Porosity: 74% (minimum of 70%)
- Chemical Composition
 - SiO₂: 78%
 - Al₂O₃: 12%
 - Fe₂O₃: 5%
- All other chemicals present equal less than 5%, CaO <2.0%, MgO, K₂O, NaO and TiO₂
- Pore Size: 0.5 μm = <6% -- .5 to 1 μm = 12% -- 1 to 3 μm = 43% -- > 3 μm = 39%
- Pore Characteristics: Continuous, open ended and interconnecting (no dead-end pore space)
- Bulk Density: <0.517 g/cc (compared with 1.2g/cc for fired clay, and 1.4g/cc for soil)
- Particle Density: 2.27 (compared with 2.56 for sand)
- Cation Exchange Capacity: <2 meq/100g
- Electrical Conductivity: <0.5 mmhos/cm. (Isolite®CG has no interaction with sodium and is not a significantly charge particle).
- Chemically Inert: Has no direct effect on soil chemistry