

TECHNICAL INFORMATION SHEET

Intensive Growing Media

Product NUMBER: GM3000-INT

Description:

Our intensive mix is designed for green roofs with deeper growing media depths and a wider variety of plant material, such as rooftop gardens and large container planters.

Our intensive vegetative roof growing media is regionally blended and formulated to meet the rigorous standards of the FLL Guidelines for particle size gradation, fines content, dry and saturated bulk density, total porosity, air filled porosity, water retention, hydraulic conductivity, pH balance, soluble salt content and organic matter content.

Our growing media is engineered using only high quality and local sourced product to the greatest extent possible. Per FLL Guidelines this growing media is derived from industry proven materials consisting of inorganic and organic materials.



Physical Characteristics:

- 1. Expanded Media Component:
 - a. Description: Inorganic expanded Media that is balanced blend of light weight mineral aggregates like HydRocks® or pumice and premium organic components like USCC STA approved compost
- 2. Compost Component
 - a. Description: Nutrient grade compost that is manufactured from recycled material and is mixed with the other three components by a composter that is enrolled in the United States Compost Council's (USCC) Seal of Testing Assurance (STA) Program.
 - Only compost products the meet all applicable state and federal regulations,
 Section 07 33 63 www.federalgreenspec.wbdg.org pertaining to its production and distribution are used in this application.
 - c. All approved compost products meet all applicable state and federal regulations for chemical contaminants (e.g. heavy metals, pesticides, etc.) and pathogen limits pertaining to the source materials in which it was derived.
- 3. Organic Component:
 - a. Description: Fiber or organic material that is a clean cellulose product that adds friability to media, filtration, and agronomic horticultural attributes.

Storage:

- Store in a dry area free of potential contaminants which may adversely affect the engineered blend including
 potential weed seeds.
- Store away from sources of ignition and extremely high temperatures, when media is shipped in bags or totes.

Precautions:

- When media is placed in bags or totes, avoid prolonged exposure to sunlight, heat, sparks and open flames.
- When media is delivered in bulk cover media piles as needed to reduce effects of potential weather conditions
 including heavy rains and winds.
- Wash exposed skin prior to eating, drinking or smoking and at the end of each shift.

LEED Information:

Manufacturing Location and Post-Consumer Recycled Content:

• Varies regionally; contact Columbia Green for project-specific information.



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Physical Properties:

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Particle Size Distribution		I
Proportion of silting components < 0.063 mm	Mass %	≤ 20
Proportion of particles < 0.25 mm 60 mesh	Mass %	15 - 40
Proportion of particles < 1.00 mm 18 mesh	Mass %	25 - 60
Proportion of particles < 2.00 mm 10 mesh	Mass %	30 - 70
Proportion of particles < 3.20 mm 1/8 inch	Mass %	50 - 90
Proportion of particles < 6.30 mm 1/4 inch	Mass %	75 - 100
Proportion of particles < 9.50 mm 3/8 inch	Mass %	90 - 100
Density Measurements		
Bulk Density (dry weight basis)	lb/ft³	44 - 53
Bulk Density (at max. water-holding capacity)	lb/ft³	72 – 85
Water/Air Measurements		I
Total Pore Volume	Vol. %	<u>≥</u> 50
Maximum water-holding capacity	Vol. %	45 – 65
Air-filled porosity at max water-holding capacity	Vol. %	<u>≥</u> 10
Water permeability (saturated hydraulic conductivity)	in/min	0.0118 - 1.18
pH and Salt Content		
pH (in CaCl ₂)		6.0 - 8.5
Soluble salts (water, 1:10, m:v)	g (KCI)/L	< 2.5
Organic Measurements		I
Organic matter content	g/L	50 - 90
Nutrients		
Phosphorus, P205 (CAL)	mg/L	≤ 200
Potassium, K2O (CAL)	mg/L	≤ 700
Magnesium, Mg (CaCl2)	mg/L	≤ 200
Nitrate + Ammonium (CaCl2)	mg/L	<u><</u> 80

^{*} Volume measures are guaranteed at the time of production and packing. Settling of materials may occur during transportation and handling. Minor deviations from test data may occur due to the natural variability of the bulk materials used to produce the media blend

Packaging/Component Size:

Туре	Volume	Approx. Delivery Weight
1.5 cf. Bags	1.5 cf bags. (palletized in 1 cy increments)	1,250 lbs.
1.5 cy Tote	1.5 cy	1,850 lbs.
2.0 cy Tote	2.0 cy	2,500 lbs.
Bulk	40-60 cy. / truck (weight dependent)	48,000 lbs. (more with tandem)

^{*} Recommended 10%-15% additional growing media (by volume) be ordered to account for long term settling of product.