VGRID Biochar Soil Amendment

BIOCHAR SOIL SUPPLEMENT APPLICATIONS	Biochar used as a soil supplement provides carbon sequestering resulting in water retention, as well as a harbor for bacteria improving plant growth. Provided as is or in mixes and can be charged with bacteria for severely depleted soils

INCREASES PLANT GROWTH

APPLICATIONS
Soil restoration
Organic farming
Manure treatment for ammonia, methane, return to soil
Indoor cannabis grow medium
Outdoor grow medium



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VGRID Biochar Soil Amendment

VGRID BIOCHAR PARTICAL SIZES	TYPICAL USES
PARTICLE SIZE - **STANDARD** VGRID BIOCHAR	OUTDOOR SOIL TREAMENT, ROW CROPS, TREES, ANIMAL BEDDING (Bedding helps to absorb ammonia, volatiles in animal feces, thereby reducing greenhouse gases and odor.)
PARTICLE SIZE - **FINE** VGRID BIOCHAR	INDOOR GROW MEDIUM, SPECIALTY BLENDS & PREMIXES (mixed with organic compost, mixed with coco peat) Nursery/Cannabis. Also, some types of Animal Bedding & Feed Supplement uses
PARTICLE SIZE - **ULTRA FINE** VGRID BIOCHAR	LIVESTOCK/ANIMAL FEED SUPPLEMENT (bind toxins in the feed to improve animal digestion, performance, and feed efficiency)

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PARTICLE SIZE STANDARD - VGRID BIOCHAR

ITEM	TYPICAL MAKE UP	GUARANTEED MAKE UP	COMMENTS
Starting Material	Non-treated wood pellets or Pistaccio shells		
Ash Content	<5%		
Moisture Content, as packed	<5%		Some variation can occur in shipping
Particle Size	less than 1/2" irregular		
Surface Area	200+/- 100 m2/g		
Total Pore Volume	0.17 cc/g		
Iodine Number, mg/g	>1100		
Tap Density, Dry g/ml	0.35		
Hardness	85-95	Min 85	
Heavy Metals			
Bulk Density		.42 g/cm3	
Solubility in Water		Not soluble	
pH		6 to 10	
Melting Point		3500 C	

PARTICLE SIZE FINE - VGRID BIOCHAR

ITEM	TYPICAL MAKE UP	GUARANTEED MAKE UP	COMMENTS
Starting Material	Non-treated wood pellets or Pistaccio shells		
Ash Content	<5%		
Moisture Content, as packed	<5%		
Particle Size (D50 microns)	3x24 mesh		
Surface Area	200+/- 100 m2/g		
Total Pore Volume	0.17 cc/g		
Iodine Number, mg/g	>1100		
Tap Density, Dry g/ml	0.35		
Hardness	85-95 estimate		
Heavy Metals			
Bulk Density		.42 g/cm3	
Solubility in Water		Not soluble	
pH		6 to 10	
Melting Point		3500 C	

PARTICLE SIZE ULTRA FINE - VGRID BIOCHAR

ITEM	TYPICAL MAKE UP	GUARANTEED MAKE UP
Starting Material	Non-treated wood pellets or Pistaccio shells	
Ash Content	<5%	
Moisture Content, as packed	<5%	
Particle Size (D50 microns)	3x24 mesh	Less than 0.0001 % of material will be larger than mesh size
Surface Area	200+/- 100 m2/g	
Total Pore Volume	0.17 cc/g	
Iodine Number, mg/g	>1100	
Tap Density, Dry g/ml	0.35	
Hardness	85-95 estimate	
Heavy Metals		
Bulk Density		.42 g/cm3
Solubility in Water		Not soluble
pH		6 to 10
Melting Point		3500 C