

**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



VGRID BIOCHAR PARTICAL SIZES	TYPICAL USES
PARTICLE SIZE - STANDARD VGRID BIOCHAR	OUTDOOR SOIL TREATMENT, 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 gastrointestinal tract to improve animal digestion, performance, and feed efficiency)

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