

Driven by nature. Backed by science.

TECHNICAL DATA SHEET

5 µm

Liquid · wet-milled biochar suspension

Sigma Biochar 5M

Long-term home for the biology

Wet-milled softwood biochar at 5 microns, 20 times smaller than a human hair, that stays in suspension. Superior porosity and hydrophilic properties improve soil structure and give the biology a lasting home.

Water and nutrient retention

Fine particles and large surface area keep water and nutrients where roots need them.

Microbial habitat

Porosity creates a home where beneficial microbes colonize, survive and replicate.

Soil structure

Aggregation, better breathing, less hydrophobicity.

Guaranteed analysis

Soil-amending ingredient	Softwood biochar 1%
Other ingredients (inert, non-plant food)	99%
Particle size	5 micron
Surface area	342 m² / g

Notes

- 65% more surface area than 75-micron suspended biochar
- Compatible with tank partners, drip and standard spray equipment

Crop rates

Use	Rate
Per application, soil or foliar	64 oz / acre
In a spray or fertigation tank	64 oz / 100 gal
Applications per season	2 to 12, by crop

Tank-mixed with the Sigma liquid package at each spray timing. See the crop-by-crop programs for each crop's schedule.

When to apply

- At planting or transplant
- Early growth (2 to 6 leaf, or 3 to 5 weeks after emergence)
- Pre-bloom and first bloom
- Fruit set
- After each picking, and post-harvest for perennials

Apply by: In-furrow, transplant drench, drip and fertigation, broadcast soil spray or foliar.

Tank order

Fill the tank one-third with water and agitate. Add Sigma Bio, Molasses, Microalgae, Biochar 5M, Seaweed, then K-Ferm, then the rest of the spray. Jar test new partners; avoid partners at pH 8 or higher.

Packaging: 2.5 gal (9.46 L) · 275 gal tote (1,041 L). Compatible with most fertilizers and crop protection products in the same tank. Store in the original container; protect from freezing.

Values from current Sigma product literature. Crop rates are starting points; set rates per field from soil and tissue tests. Sigma products are not pesticides. Always read and follow the product label; confirm state registration.