

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; 694 acres / cu ft**

Notes

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

Rates · Sigma Liquid Foundation Program

Spray interval	oz / acre	oz / 1,000 ft²
Weekly (7-day)	**22**	0.5
14-day	**44**	1
21-day	**66**	1.5
28-day	**88**	2

Set per acre per week; multiply by the weeks between sprays.

Tank order

Fill one-third with water and agitate. Add Sigma Bio, Molasses, Microalgae, Biochar 5m, Seaweed, then K-Ferm. Build the scheduled spray on top (nutrients, then W-A-L-E-S). Watch for partners at pH 8 or higher. Jar test; water in within 36 hours.

Packaging: 2.5 gal (9.46 L) · 275 gal tote (1,041 L).
Compatible with fungicides, insecticides, PGRs, wetting agents and fertilizers in the same application. Store in the original container; protect from freezing.

Values from current Sigma product literature. Sigma products are not pesticides. Always read and follow the product label; confirm state registration.