

The Sigma Biochar Platform

Four biochar technologies: spray it, blend it, coat with it, build with it.

Sigma offers a full line of professional biochar for agriculture, turf, horticulture, soil manufacturing and lawn and garden brands. Each product is built for one job, from premium virgin pecan shell biochar and other carefully selected feedstocks.

Sigma Biochar 5M

Sprayable liquid · ~5 microns

Softwood pine

Wet-milled to about 5 microns so it stays hydrophilic and in suspension. Rides in the spray tank, injection or fertigation.

Sigma Biochar EZ Mix

Medium granular · ~1 mm

100% virgin pecan shell

Clean, screened pecan shell chip for dry fertilizer blends and soil incorporation. No binder to crush.

Sigma Biochar Powder+

Fine powder · ~20 microns

100% virgin pecan shell

Ultra-fine pecan shell powder for liquid fertilizers, seed and granule coatings and specialty blends.

Sigma Biochar Dispersion

High-solids liquid

Premium pecan shell

Thick, pourable pecan shell suspension with high biochar loading for potting soil, growing media and compost manufacturing.

Why Sigma biochar

- Premium virgin pecan shell feedstock: consistent, nutrient rich and low dust
- Four delivery forms for spray, blending, coating and manufacturing
- Works alongside humates, biologicals, seaweed extracts and the Sigma Foundation Program
- Private label and custom screened sizes for blenders and brands

Markets served

Agriculture · Turf and ornamental · Horticulture · Growing media · Soil manufacturing · Compost · Lawn and garden brands

Pecan shell grades at a glance

Typical value	EZ Mix	Powder+
Organic carbon	88.1%	85.0%
Surface area	250 m²/g	250–265 m²/g
Ash	5%	4–5%
pH	8.5	9.7
Heavy metals	Below IBI limits	Below IBI limits



EZ Mix



Powder+

Typical values from representative lab samples; results vary by lot. Technical data sheets for each product are available from info@sigma-agri.com. Always read and follow the product label; confirm state registration.