

Driven by nature. Backed by science.

TECHNICAL DATA SHEET

4-3-2

Large grade SGN 250

Sigma 4-3-2 Bio 2X

Extra humate and 2X biology for rebuilding soils

A 4-3-2 from processed poultry manure with 7% calcium, 6% humic acids (twice our standard grades) and the heavier 2X dose of Sigma biology. Use it to rebuild tired soils, or as the biological base blended into conventional fertilizer.

Guaranteed analysis

Total nitrogen (N)	4.0%
Water-soluble nitrogen	1.2%
Water-insoluble nitrogen	2.8%
Available phosphate (P_2O_5)	3.0%
Soluble potash (K_2O)	2.0%
Calcium (Ca)	7.0%
Iron (Fe)	0.1%

Derived from processed poultry manure and leonardite. * 2.8% slowly available water insoluble nitrogen from processed poultry manure.

Biology and carbon

Humic acids	6.0%
Beneficial bacteria	4,200,000 CFU / lb
Endomycorrhizae	9.4 propagules / lb
Trichoderma	716,000 CFU / lb

GranCORE granule

Powder granulated into a true round granule with a molasses / lignin sulfonate binder: consistent bulk density and spread. Every prill is individually inoculated with Sigma Bio.

Where it fits

- Soil building and renovation
- Grow-ins and new plantings
- Biological base for blends and Bridge products
- Potting, garden and bed mixes

General application rates

USE	SIGMA 4-3-2 BIO 2X
Lawns and turf · 0.5 lb N / 1,000 ft^2	12.5 lb / 1,000 ft^2
Lawns and turf · 1 lb N / 1,000 ft^2	25 lb / 1,000 ft^2
Gardens and beds · 1 lb N / 1,000 ft^2	2.5 lb / 100 ft^2
Field crops · 50 lb N / acre	1,250 lb / acre
Field crops · 100 lb N / acre	2,500 lb / acre

Rates by nitrogen target. Golf, sports turf and farm programs have their own data sheets with detailed rates.

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk. Private label bags and blends on request.
Application: Broadcast with a rotary or drop spreader, incorporate into beds and mixes, or band at planting. Water in or time before rain. Store dry.

Values from the product label. Rates are general starting points; set rates from soil tests and site needs. Always read and follow the product label; confirm local registration.