

PRODUCT CATALOG · GRANULAR

Granular Performance Fertilizers

Organic performance grades, the Double Bio line and Bio Bridge blends

Organic nutrition, humic acids and the Sigma biology in every granule, with a full technical data sheet for each grade.

- **Fine grade SGN 110** for greens and tees; large SGN 250 for fairways and acreage.
- **Double Bio line:** Sigma 0-2-13, 2-4-2 and 4-3-2 Bio 2X carry the heavier 2X dose of biology.
- **Bio Bridge blends** for longer release: 6 to 10 week windows with the same biology.

Build your foundation today. Follow the science.

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PRODUCT CATALOG · GRANULAR

Granular performance fertilizers

Compare Sigma granular analyses

Organic nutrition, humic acids and the Sigma biology in every granule. Fine grade SGN 110 for greens and tees; large grade SGN 250 for fairways and acreage. Bridge blends add slow-release conventional nitrogen with the same biology.

Organic performance grades

PRODUCT	N	P_2O_5	K_2O	CA	HUMIC	BACTERIA / LB	USE
Sigma 0-2-13 Bio 2X Large grade SGN 250 · Fine grade SGN 110	0%	2.0%	13.0%	7.0%	3%	4.2M	Potassium and 2X biology, zero nitrogen
Sigma 4-4-4 Bio Large grade SGN 250 · Fine grade SGN 110	4.0%	4.0%	4.0%	6.0%	3%	2.8M	Balanced performance fertilizer for turf
Sigma 4-3-2 Bio 2X Large grade SGN 250	4.0%	3.0%	2.0%	7.0%	6%	4.2M	Extra humate and 2X biology for rebuilding root zones
Sigma 5-3-2 Bio Fine grade SGN 110	5.0%	3.0%	2.0%	7.0%	3%	2.8M	Traffic and stress recovery with built-in biology
Sigma 6-2-6 Bio Fine grade SGN 110	6.0%	2.0%	6.0%	5.0%	5%	2.8M	High N and K, low phosphorus
Sigma 2-4-2 Bio 2X Large grade SGN 250	2.0%	4.0%	2.0%	10.0%	10%	4.2M	Extra humate and 2X biology: the root-zone builder
Sigma 7-2-1 Bio Large grade SGN 250	7.0%	2.0%	1.0%	5.0%	3%	2.8M	Higher organic nitrogen for heavy-feeding turf
Sigma 8-5-1 Bio Large grade SGN 250	8.0%	5.0%	1.0%	5.0%	3%	2.8M	Non-manure organic from animal proteins

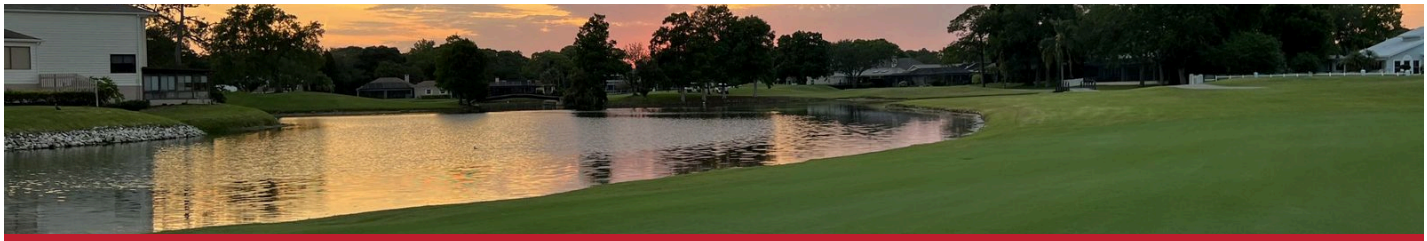
Bio Bridge blends

PRODUCT	N	P_2O_5	K_2O	CA	HUMIC	BACTERIA / LB	USE
Sigma 12-2-6 Bio Bridge Bridge blend · SGN 250	12.0%	2.0%	6.0%		5%	2.8M	Slow-release nitrogen on a biological base
Sigma 15-5-10 Bio Bridge Bridge blend · SGN 250	15.0%	5.0%	10.0%	1.5%	3%	0.4M	Complete N-P-K with micronutrients on a biological base
Sigma 16-2-3 Bio Bridge Bridge blend · SGN 250	16.0%	2.0%	3.0%	3.0%	2%	2.0M	High nitrogen, nearly all slowly available

Double Bio line. Sigma 0-2-13 Bio 2X, 2-4-2 Bio 2X and 4-3-2 Bio 2X carry the heavier 2X dose of Sigma biology, and the 2-4-2 and 4-3-2 add extra humate. On turf, Sigma 0-2-13 Bio 2X every 45 days at 100–150 lb / acre keeps the root zone colonized between main feedings.

The program. Sigma 4-4-4 Bio leads aerification and recovery (SGN 110 on fine turf, SGN 250 on large areas). Use 5-3-2 Bio for traffic and stress, 6-2-6 Bio for higher nitrogen and potassium, and the Bridge blends when you need a longer release curve: 12-2-6 Bio Bridge 6–8 weeks, 16-2-3 Bio Bridge up to 10 weeks.

Analyses from the product labels. The full data sheet for each grade follows.



0-2-13

Large grade SGN 250 · Fine grade SGN 110

Sigma 0-2-13 Bio 2X

Potassium and 2X biology, zero nitrogen

High potash from sunflower hull ash with calcium, humic acids and the heavier 2X dose of Sigma biology, and no nitrogen. Part of the Double Bio line: a 45-day rotation keeps the root zone colonized without pushing top growth, alongside any nitrogen program.

Guaranteed analysis

Available phosphate (P_2O_5)	**2.0%**
Soluble potash (K_2O)	**13.0%**
Calcium (Ca)	**7.0%**
Magnesium (Mg)	**0.5%**

Derived from processed poultry manure and sunflower hull ash.

Biology and carbon

Humic acids	**3.0%**
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

- Double Bio rotation: every 45 days at 100–150 lb per acre on all turf areas
- Summer stress and heat tolerance on greens and tees
- Fall hardening and winter preparation
- Potassium on sand-based greens and fields that leach K
- When the nitrogen budget is already met

Label application rates · turf

USE	LB / 1,000 FT²	LB / ACRE	K_2O / 1,000 FT²
Golf · low	**1.9**	**83**	**0.25 lb**
Golf · medium	**3.85**	**168**	**0.5 lb**
Golf · high	**7.7**	**335**	**1.0 lb**
Turf · medium	**3.85**	**168**	**0.5 lb**
Turf · high	**7.7**	**335**	**1.0 lb**

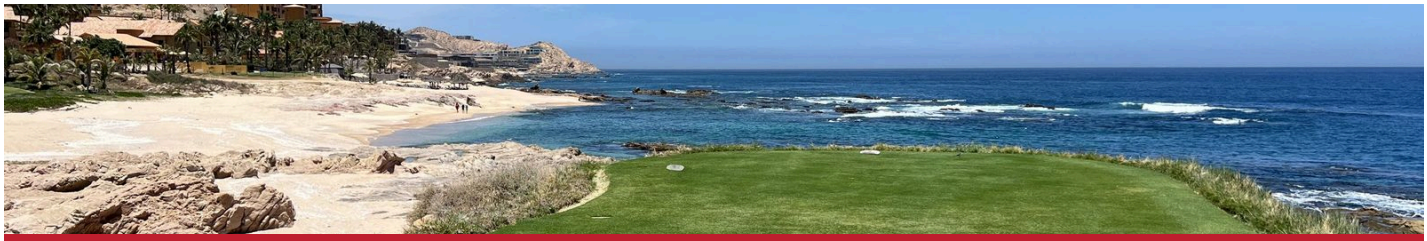
High rates on the label run 7.7 to 15.4 lb per 1,000 ft² (1 to 2 lb K_2O) where soil tests call for more potassium.

Product per pound of potash (K_2O)

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb K_2O / 1,000 ft²	**1.9 lb**	84 lb / acre
0.5 lb K_2O / 1,000 ft²	**3.8 lb**	168 lb / acre
0.75 lb K_2O / 1,000 ft²	**5.8 lb**	251 lb / acre
1.0 lb K_2O / 1,000 ft²	**7.7 lb**	335 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.



4-4-4

Large grade SGN 250 · Fine grade SGN 110

Sigma 4-4-4 Bio

Balanced performance fertilizer for turf

Our most popular blend: a balanced 4-4-4 with calcium, iron, humic acids and the full Sigma biology to fuel turf and recharge depleted soils. The base granular of the Foundation Program for greens, tees, fairways, fields and lawns.

Guaranteed analysis

Total nitrogen (N)	**4.0%**
Ammoniacal nitrogen	**0.2%**
Other water-soluble nitrogen	**0.6%**
Water-insoluble nitrogen	**3.2%**
Available phosphate (P_2O_5)	**4.0%**
Soluble potash (K_2O)	**4.0%**
Calcium (Ca)	**6.0%**
Iron (Fe)	**0.1%**

Derived from processed poultry manure, bone meal, feather meal and sulfate of potash. *3.2% slowly available water insoluble Nitrogen (N) from processed poultry manure, bone meal and feather meal.

Biology and carbon

Humic acids	**3.0%**
Beneficial bacteria	**2,800,000 CFU / lb**
Endomycorrhizae	**6.1 propagules / lb**
Trichoderma	**480,000 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. OMRI-listed organic inputs.

Where it fits

- Aerification and recovery: the main Sigma granular (SGN 110 fine turf, SGN 250 large areas)
- Midsummer stress management
- Winter dormant feeding
- Cool-season overseeding and warm-season transition
- Establishment: high rate before seeding, sodding or sprigging

Foundation Program rates (SGN 110 fine grades)

RATE	LB / ACRE	LB / 1,000 FT²	WHEN
Low	300	6.9	Every 30–45 days with topdressing, rolled in and watered
Medium	545	12.5	At aerification, worked in; 2–3 times per season
High	1,000	23	Establishment: direct to soil before seeding, sod or sprigs

Product per pound of nitrogen

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb N / 1,000 ft²	**6.2 lb**	272 lb / acre
0.5 lb N / 1,000 ft²	**12.5 lb**	544 lb / acre
0.75 lb N / 1,000 ft²	**18.8 lb**	817 lb / acre
1.0 lb N / 1,000 ft²	**25 lb**	1,089 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.



4-3-2

Large grade SGN 250

Sigma 4-3-2 Bio 2X

Extra humate and 2X biology for rebuilding root zones

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. Built for root-zone rebuilding, grow-ins and aggressive cultural programs.

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

- Grow-ins and sand root-zone construction
- Root-zone rebuilding on tired soils
- Aggressive cultural programs and aerification
- Biological base for Bridge blends

Label application rates · turf

USE	LB / 1,000 FT²	LB / ACRE	N / 1,000 FT²
Golf · low	**10**	**436**	**0.50 lb**
Golf · medium	**15**	**653**	**0.75 lb**
Golf · high	**20**	**871**	**1.0 lb**
Lawns · medium	**15**	**653**	**0.75 lb**
Lawns · high	**20**	**871**	**1.0 lb**

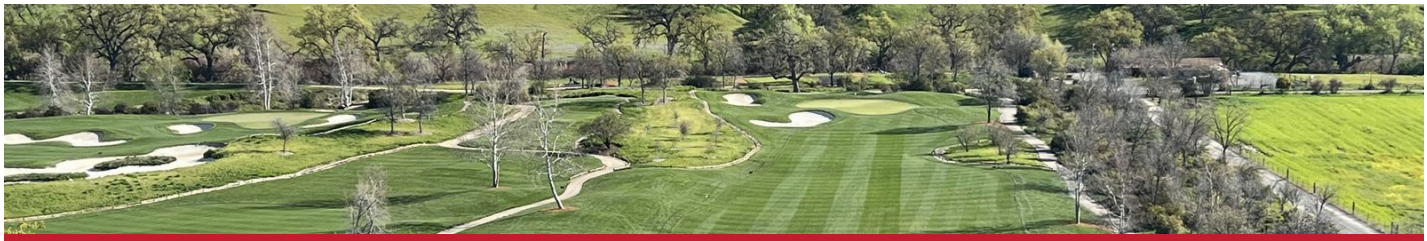
Trees and palms: per inch of trunk caliper, 5 lb incorporated at transplanting or 10 lb broadcast.

Product per pound of nitrogen

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb N / 1,000 ft²	**6.2 lb**	272 lb / acre
0.5 lb N / 1,000 ft²	**12.5 lb**	544 lb / acre
0.75 lb N / 1,000 ft²	**18.8 lb**	817 lb / acre
1.0 lb N / 1,000 ft²	**25 lb**	1,089 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.



5-3-2

Fine grade SGN 110

Sigma 5-3-2 Bio

Traffic and stress recovery with built-in biology

A straightforward 5-3-2 with humic acids and the full Sigma biology, for greens, tees and fairways when the soil needs extra attention: recovery from traffic, wear and stress. For aerification recovery, Sigma 4-4-4 Bio is the main recommendation.

Guaranteed analysis

Total nitrogen (N)	**5.0%**
Water-soluble nitrogen	**1.2%**
Water-insoluble nitrogen	**3.8%**
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, bone meal, feather meal and sulfate of potash. *3.8% slowly available water insoluble Nitrogen (N) from processed poultry manure, bone meal and feather meal.

Biology and carbon

Humic acids	**3.0%**
Beneficial bacteria	**2,800,000 CFU / lb**
Endomycorrhizae	**6.1 propagules / lb**
Trichoderma	**480,000 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. OMRI-listed organic inputs.

Where it fits

- Spring and fall recovery from traffic and stress
- Divot and wear areas
- Midsummer stress management
- Overseeding nutrition and transition

Foundation Program rates (SGN 110 fine grades)

RATE	LB / ACRE	LB / 1,000 FT²	WHEN
Low	300	6.9	Every 30–45 days with topdressing, rolled in and watered
Medium	545	12.5	Traffic and stress recovery, worked in; 2–3 times per season
High	1,000	23	Establishment: direct to soil before seeding, sod or sprigs

Product per pound of nitrogen

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb N / 1,000 ft²	**5 lb**	218 lb / acre
0.5 lb N / 1,000 ft²	**10 lb**	436 lb / acre
0.75 lb N / 1,000 ft²	**15 lb**	653 lb / acre
1.0 lb N / 1,000 ft²	**20 lb**	871 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.



6-2-6

Fine grade SGN 110

Sigma 6-2-6 Bio

High N and K, low phosphorus

Fast- and slow-release organic nitrogen with high potassium and lower phosphorus: a fit for sites with phosphorus restrictions and for greens and fairways needing extra N and K.

Guaranteed analysis

Total nitrogen (N)	**6.0%**
Water-soluble nitrogen	**0.9%**
Water-insoluble nitrogen	**5.1%**
Available phosphate (P_2O_5)	**2.0%**
Soluble potash (K_2O)	**6.0%**
Calcium (Ca)	**5.0%**
Iron (Fe)	**0.2%**

Derived from composted poultry manure, feather meal and sulfate of potash. * 5.1% slowly available water insoluble nitrogen from composted poultry manure and feather meal.

Biology and carbon

Humate	**5.0%**
Beneficial bacteria	**2,800,000 CFU / lb**
Endomycorrhizae	**6.1 propagules / lb**
Trichoderma	**480,000 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. OMRI-listed organic inputs.

Where it fits

- Phosphorus-restricted sites and lawns
- Greens and fairways needing added N and K
- Low-rate, steady feeding where Poa seedhead pressure matters

Foundation Program rates (SGN 110 fine grades)

RATE	LB / ACRE	LB / 1,000 FT²	WHEN
Low	300	6.9	Every 30–45 days with topdressing, rolled in and watered
Medium	545	12.5	At aerification, worked in; 2–3 times per season
High	1,000	23	Establishment: direct to soil before seeding, sod or sprigs

Product per pound of nitrogen

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb N / 1,000 ft²	**4.2 lb**	182 lb / acre
0.5 lb N / 1,000 ft²	**8.3 lb**	363 lb / acre
0.75 lb N / 1,000 ft²	**12.5 lb**	544 lb / acre
1.0 lb N / 1,000 ft²	**16.7 lb**	726 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.



2-4-2

Large grade SGN 250

Sigma 2-4-2 Bio 2X

Extra humate and 2X biology: the root-zone builder

A base 2-4-2 with 10% humate, the heavier 2X dose of Sigma biology and 10% calcium. Use on its own to build the root zone, or as the biological base of the Sigma bridge blends.

Guaranteed analysis

Total nitrogen (N)	**2.0%**
Water-soluble nitrogen	**0.68%**
Water-insoluble nitrogen	**1.32%**
Available phosphate (P_2O_5)	**4.0%**
Soluble potash (K_2O)	**2.0%**
Calcium (Ca)	**10.0%**
Magnesium (Mg)	**0.6%**
Iron (Fe)	**0.15%**

Derived from composted poultry manure and feather meal. * 1.32% slowly available water insoluble nitrogen from composted poultry manure and feather meal.

Biology and carbon

Humate	**10.0%**
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. OMRI-listed organic inputs.

Where it fits

- Pre-plant: incorporate 2–3 weeks before planting
- Root-zone building and renovation
- Biological base of 12-2-6 and 15-5-10 bridge blends
- Low-input maintenance programs

Label application rates · turf

USE	LB / 1,000 FT²	LB / ACRE	N / 1,000 FT²
Golf · low	**25**	**1,089**	**0.50 lb**
Golf · medium	**37.5**	**1,634**	**0.75 lb**
Golf · high	**50**	**2,178**	**1.0 lb**
Lawns · medium	**37.5**	**1,634**	**0.75 lb**
Lawns · high	**50**	**2,178**	**1.0 lb**

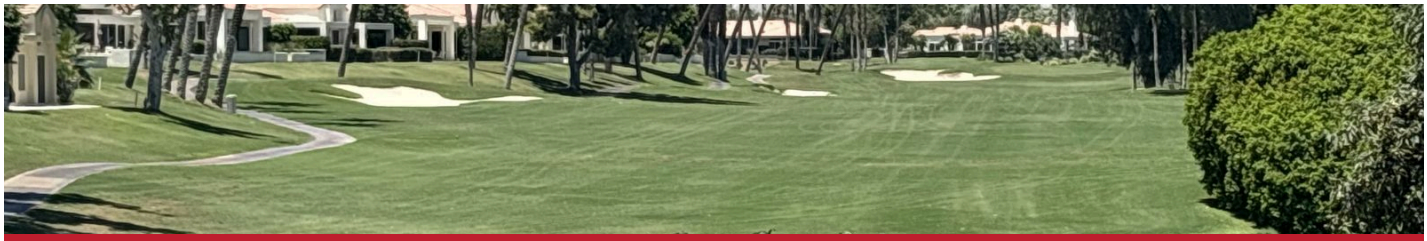
Trees and palms: per inch of trunk caliper, 12.5 lb incorporated at transplanting or 25 lb broadcast.

Product per pound of nitrogen

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb N / 1,000 ft²	**12.5 lb**	544 lb / acre
0.5 lb N / 1,000 ft²	**25 lb**	1,089 lb / acre
0.75 lb N / 1,000 ft²	**37.5 lb**	1,634 lb / acre
1.0 lb N / 1,000 ft²	**50 lb**	2,178 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.



7-2-1

Large grade SGN 250

Sigma 7-2-1 Bio

Higher organic nitrogen for heavy-feeding turf

A high-nitrogen organic blend with humic acids and the Sigma biology, for turf that needs an extra nitrogen boost while building the soil.

Guaranteed analysis

Total nitrogen (N)	**7.0%**
Water-soluble nitrogen	**1.9%**
Water-insoluble nitrogen	**5.1%**
Available phosphate (P_2O_5)	**2.0%**
Soluble potash (K_2O)	**1.0%**
Calcium (Ca)	**5.0%**
Iron (Fe)	**0.1%**

Derived from processed poultry manure and feather meal. *5.1% slowly available water insoluble Nitrogen (N) from processed poultry manure and feather meal.

Biology and carbon

Humic acids	**3.0%**
Beneficial bacteria	**2,800,000 CFU / lb**
Endomycorrhizae	**6.1 propagules / lb**
Trichoderma	**480,000 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. OMRI-listed organic inputs.

Where it fits

- Fairways, roughs and sports fields needing more N
- Heavy-feeding turf in the growing season
- Pre-plant broadcast or incorporation

Label application rates · turf

USE	LB / 1,000 FT²	LB / ACRE	N / 1,000 FT²
Golf · low	**7**	**305**	**0.50 lb**
Golf · medium	**11**	**479**	**0.75 lb**
Golf · high	**14**	**610**	**1.0 lb**
Lawns · medium	**11**	**479**	**0.75 lb**
Lawns · high	**14**	**610**	**1.0 lb**

Trees and palms: per inch of trunk caliper, 3.5 lb incorporated at transplanting or 7 lb broadcast.

Product per pound of nitrogen

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb N / 1,000 ft²	**3.6 lb**	156 lb / acre
0.5 lb N / 1,000 ft²	**7.1 lb**	311 lb / acre
0.75 lb N / 1,000 ft²	**10.7 lb**	467 lb / acre
1.0 lb N / 1,000 ft²	**14.3 lb**	622 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.



8-5-1

Large grade SGN 250

Sigma 8-5-1 Bio

Non-manure organic from animal proteins

A premium no-manure blend made entirely from high-quality animal proteins (meat and bone meal), with humic acids and the Sigma biology. High nitrogen with a steady 8–12 week feed.

Guaranteed analysis

Total nitrogen (N)	**8.0%**
Water-soluble nitrogen	**1.25%**
Water-insoluble nitrogen	**6.75%**
Available phosphate (P_2O_5)	**5.0%**
Soluble potash (K_2O)	**1.0%**
Calcium (Ca)	**5.0%**

Derived from meat and bone meal. *6.75% slowly available water insoluble Nitrogen (N) from meat and bone meal.

Biology and carbon

Humic acids	**3.0%**
Beneficial bacteria	**2,800,000 CFU / lb**
Endomycorrhizae	**6.1 propagules / lb**
Trichoderma	**480,000 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. OMRI-listed organic inputs.

Where it fits

- Sites that want a manure-free organic
- Turf requiring higher nitrogen
- Steady 8–12 week release

Label application rates · turf

USE	LB / 1,000 FT²	LB / ACRE	N / 1,000 FT²
Golf · low	**6**	**261**	**0.50 lb**
Golf · medium	**9**	**392**	**0.75 lb**
Golf · high	**12**	**523**	**1.0 lb**
Lawns · medium	**9**	**392**	**0.75 lb**
Lawns · high	**12**	**523**	**1.0 lb**

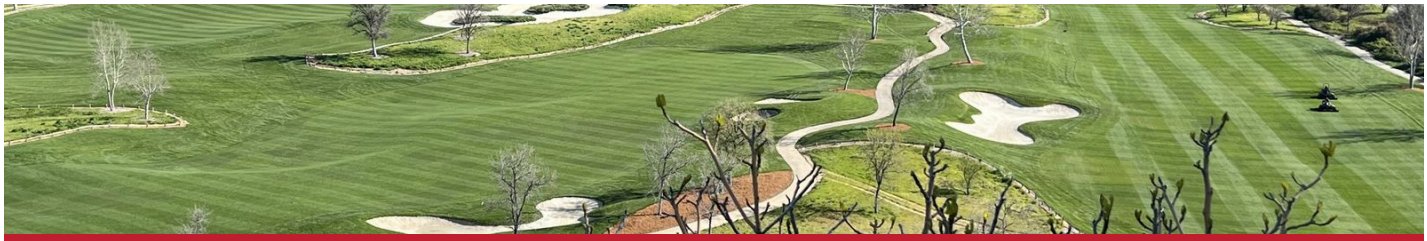
Trees and palms: per inch of trunk caliper, 3 lb incorporated at transplanting or 6 lb broadcast.

Product per pound of nitrogen

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb N / 1,000 ft²	**3.1 lb**	136 lb / acre
0.5 lb N / 1,000 ft²	**6.2 lb**	272 lb / acre
0.75 lb N / 1,000 ft²	**9.4 lb**	408 lb / acre
1.0 lb N / 1,000 ft²	**12.5 lb**	544 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.



12-2-6

Bridge blend · SGN 250

Sigma 12-2-6 Bio Bridge

Slow-release nitrogen on a biological base

Polymer-coated sulfur-coated urea on Sigma's organic, biological granule, with 5% humate, 5% magnesium and sulfur. Steady color and growth for up to 10 weeks while the biology builds the root zone.

Guaranteed analysis

Total nitrogen (N)	**12.0%**
Water-soluble nitrogen	**10.8%**
Water-insoluble nitrogen	**1.2%**
Available phosphate (P_2O_5)	**2.0%**
Soluble potash (K_2O)	**6.0%**
Magnesium (Mg)	**5.0%**
Sulfur (S)	**4.0%**
Combined Sulfur (S)	**4.0%**
Iron (Fe)	**0.3%**
Soluble Iron (Fe)	**0.3%**

Derived from composted poultry manure, urea, polymer coated sulfur coated urea, potassium magnesium sulfate, copper oxide, iron sulfate, iron oxide, manganese sulfate, manganese oxide, zinc sulfate, zinc oxide and sulfate of potash. *10.8% Slow release nitrogen from polymer coated sulfur coated urea and poultry manure.

Biology and carbon

Humate	**5.0%**
Beneficial bacteria	**2,800,000 CFU / lb**
Endomycorrhizae	**6.1 propagules / lb**
Trichoderma	**480,000 CFU / lb**

Bridge blend

Sigma's biological granule (humate, Bacillus, mycorrhizae, Trichoderma) blended with polymer-coated sulfur-coated urea for a steady feed up to 10 weeks.

Where it fits

- Fairways, roughs and sports fields
- Lawns and commercial landscapes
- Programs moving from conventional toward biological
- Longer intervals between applications (6 to 10 weeks)
- Magnesium-hungry sandy soils

Label application rates · turf

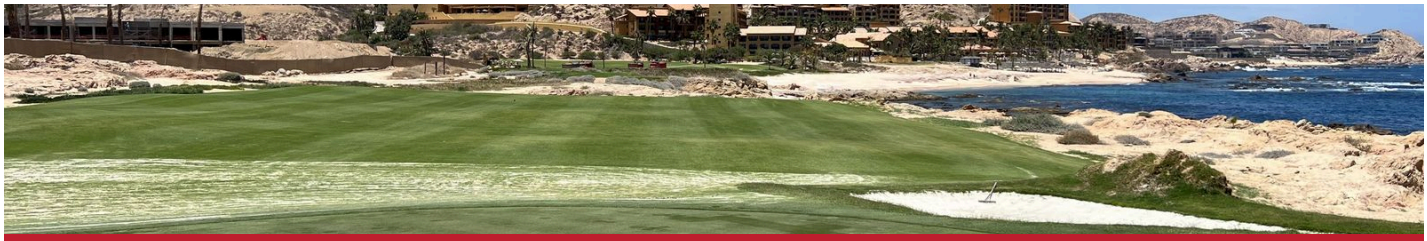
USE	LB / 1,000 FT²	LB / ACRE	N / 1,000 FT²
Golf · low	**4.25**	**185**	**0.50 lb**
Golf · medium	**6.25**	**272**	**0.75 lb**
Golf · high	**8.25**	**359**	**1.0 lb**
Turf · medium	**6.25**	**272**	**0.75 lb**
Turf · high	**8.25**	**359**	**1.0 lb**

Product per pound of nitrogen

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb N / 1,000 ft²	**2.1 lb**	91 lb / acre
0.5 lb N / 1,000 ft²	**4.2 lb**	182 lb / acre
0.75 lb N / 1,000 ft²	**6.2 lb**	272 lb / acre
1.0 lb N / 1,000 ft²	**8.3 lb**	363 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.



15-5-10

Bridge blend · SGN 250

Sigma 15-5-10 Bio Bridge

Complete N-P-K with micronutrients on a biological base

A higher-analysis complete feed: 15-5-10 with 10% sulfur, calcium, magnesium and a full micronutrient package, coated nitrogen for a longer window, and Sigma humic acids and biology.

Guaranteed analysis

Total nitrogen (N)	**15.0%**
Ammoniacal nitrogen	**9.4%**
Urea nitrogen*	**5.6%**
Available phosphate (P_2O_5)	**5.0%**
Soluble potash (K_2O)	**10.0%**
Sulfur (S)	**10.0%**
Calcium (Ca)	**1.5%**
Magnesium (Mg)	**1.0%**
Micronutrients **B 0.03% · Cu 0.05% · Fe 0.5% · Mn 0.05% · Mo 0.0005% · Zn 0.5%**	

Derived from: Poultry Meal, Polymer Coated Urea, Polymer Coated Ammonium Sulfate, Ammonium Sulfate, Diammonium Phosphate, Zinc Sulfate, Sulfate of Potash, Boric Acid, Sodium Borate, Copper Oxide, Copper Sulfate, Iron Oxide, Iron Sulfate, Iron Amino Acid Complex, Manganese Oxide, Manganese Sulfate, Sodium Molybdate, Zinc Sulfate, Zinc Oxide, Gypsum, Calcium Oxide. *2.7% Slowly Available Ammoniacal Nitrogen from Polymer Coated Ammonium Sulfate. **5.6% Slowly Available Urea Nitrogen from Polymer Coated Urea.

Biology and carbon

Humic acids	**3.0%**
Beneficial bacteria	**420,000 CFU / lb**
Endomycorrhizae	**0.91 propagules / lb**
Trichoderma	**72,000 CFU / lb**

Bridge blend

Sigma's biological granule (humic acids, Bacillus, mycorrhizae, Trichoderma) blended with polymer-coated urea and ammonium sulfate for a longer window.

Where it fits

- Fairways and sports fields needing complete N-P-K
- Grow-in and renovation once turf is established
- Ornamentals, landscape beds and nursery stock
- Trees and palms at transplanting
- Longer windows between applications

Label application rates · turf

USE	LB / 1,000 FT²	LB / ACRE	N / 1,000 FT²
Golf · low	**3.3**	**144**	**0.50 lb**
Golf · medium	**5**	**218**	**0.75 lb**
Golf · high	**6.7**	**292**	**1.0 lb**
Turf · medium	**5**	**218**	**0.75 lb**
Turf · high	**6.7**	**292**	**1.0 lb**

Trees and palms: per inch of trunk caliper, 1.7 lb incorporated at transplanting or 3.3 lb broadcast.

Product per pound of nitrogen

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb N / 1,000 ft²	**1.7 lb**	73 lb / acre
0.5 lb N / 1,000 ft²	**3.3 lb**	145 lb / acre
0.75 lb N / 1,000 ft²	**5 lb**	218 lb / acre
1.0 lb N / 1,000 ft²	**6.7 lb**	290 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.



16-2-3

Bridge blend · SGN 250

Sigma 16-2-3 Bio Bridge

High nitrogen, nearly all slowly available

The highest-nitrogen Bridge: polymer-coated urea and organic nitrogen on Sigma's biological granule, with 3% calcium, micronutrients and humic acids. More nitrogen per pass with a steady release.

Guaranteed analysis

Total nitrogen (N)	**16.0%**
Urea nitrogen	**12.46%**
Water-soluble nitrogen	**0.86%**
Other water-insoluble nitrogen*	**2.68%**
Available phosphate (P_2O_5)	**2.0%**
Soluble potash (K_2O)	**3.0%**
Calcium (Ca)	**3.0%**
Sulfur (S)	**0.08%**
Micronutrients **B 0.02% · Cu 0.05% · Fe 0.2% · Mn 0.05% · Mo 0.0005% · Zn 0.05%**	

Derived from Polymer Coated Urea, Sodium Borate, Copper Sulfate, Iron Oxide, Ferrous Sulfate, Manganese Oxide, Manganese Sulfate, Molybdic Oxide, Zinc Oxide, Zinc Sulfate, Processed Poultry Manure, Bone Meal, Feather Meal, and Sulfate of Potash. * 12.46% slowly available Urea Nitrogen (N) from Polymer Coated Urea. ** 2.68% slowly available water insoluble Nitrogen (N) from processed poultry manure, bone meal and feather meal.

Biology and carbon

Humic acids	**2.0%**
Beneficial bacteria	**1,990,000 CFU / lb**
Endomycorrhizae	**4.17 propagules / lb**
Trichoderma	**336,000 CFU / lb**

Bridge blend

Sigma's biological granule (humic acids, Bacillus, mycorrhizae, Trichoderma) blended with polymer-coated urea and organic nitrogen for a slow, steady release.

Where it fits

- Fairways, roughs and sports fields in active growth
- Warm-season turf in the growing season
- Sod production and high-nitrogen programs
- Fewer passes for the same nitrogen budget
- Sites with adequate phosphorus and potassium

Label application rates · turf

USE	LB / 1,000 FT²	LB / ACRE	N / 1,000 FT²
Golf · low	**3**	**131**	**0.50 lb**
Golf · medium	**4.75**	**207**	**0.75 lb**
Golf · high	**6.25**	**272**	**1.0 lb**
Turf · medium	**4.75**	**207**	**0.75 lb**
Turf · high	**6.25**	**272**	**1.0 lb**

Trees and palms: per inch of trunk caliper, 1.5 lb incorporated at transplanting or 3.0 lb broadcast.

Product per pound of nitrogen

TO APPLY	PRODUCT / 1,000 FT²	PER ACRE
0.25 lb N / 1,000 ft²	**1.6 lb**	68 lb / acre
0.5 lb N / 1,000 ft²	**3.1 lb**	136 lb / acre
0.75 lb N / 1,000 ft²	**4.7 lb**	204 lb / acre
1.0 lb N / 1,000 ft²	**6.2 lb**	272 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: calibrated rotary or drop spreader; irrigate 0.15–0.25 in. or time before rainfall. Store dry.

Values from the product label. Always read and follow the product label; confirm state registration.