

BioGas1

BLEND OF 10 BIOAVAILABLE TRACE ELEMENTS

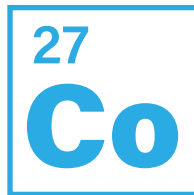


BioGas1 blends macro levels Iron, Cobalt, and Nickel, with micro levels of seven other trace elements to enhance microbial metabolism. It leverages the combined effects of these elements to fortify and diversify the microbial community. This formula enhances metabolic activity, improves biogas quality, and can mitigate hydrogen sulfide production, ensuring efficient and cleaner digestion.

Contact Aquafix for specialized treatment recommendations and testing services.

Demonstrated safe and effective for:

- Complete mix anaerobic digesters
- Covered lagoons
- Continuous Stirred Tank Reactors (CSTRs)
- Upflow Anaerobic Sludge Blanket (UASB) reactors



+7 Other
Trace Elements

KEY TRACE ELEMENTS IN BIOGAS1

| | |
|-------------------|---|
| Iron | Improves biogas production, redox activator, electron acceptor |
| Cobalt | Activates enzyme pathways, essential for B Vitamin synthesis |
| Nickel | Production of coenzymes |
| Manganese | Activates enzymes, stabilizes methane formers |
| Potassium | Stimulates cell growth |
| Calcium | Aids in membrane permeability |
| Copper | Activates enzymes |
| Chromium | Assists in the metabolism of glucose |
| Magnesium | Enzyme activator |
| Molybdenum | A cofactor in enzyme production, helps to inhibit sulfate reducing bacteria |



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Dose Rates

BIOGAS1



INITIAL LOADING DOSE - DAY 1

| Dose Rate | Tank Volume |
|------------|-------------------|
| 1 Gallon | 100,000 Gallons |
| 10 Gallons | 1,000,000 Gallons |

MAINTENANCE DOSE - AFTER DAY 1

| Dose Rate | COD Loading |
|---------------|---------------|
| 5-10 Gallons | 10,000 Pounds |
| 25-50 Gallons | 50,000 Pounds |

BIOGAS1 DOSING:

- Add to digesters with a pH already between 6.8-7.5
- Added into influent
- Can be added either manually or with a metering pump
- Add daily or weekly depending on COD loading

AVAILABLE SIZES:

- 5 gal case
- 55 gal drum
- 275 gal tote

Notes:



For digesters with low starting pH use Boost N Lock first to raise pH above 6.



DeFoam 3000 provides excellent foam control in Anaerobic Digestors.