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



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 membreane 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

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

Notes:



MAINTENANCE DOSE - AFTER DAY 1

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

AVAILABLE SIZES:

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



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



Defoam 3000 provides excellent Digestors.