





# MicroNox

MicroNox, developed to be added directly to Anaerobic Digesters, effectively removing H2S from the biogas.

### Benefits of MICRONOX ON16

- Avoids toxicity and physical risks: MICRONOX ON 16 is a product that is not harmful to peolple, equipment or the environment.
- Safe and clean handling: Can be added simply without the need for complicated dosing systems.
- Absence of risk of explosive mixtures: Makes the injection of oxygen unnecessary.
- desulfurization:

  Not only is MICRONOX ON 16 an effective method of capturing H2S, but it also improves reactor productivity.

Cheaper and more efficient

- Minimizes corrosion damage: Reduces equipment maintenance costs.
- Improves compost characteristics:
  The use of MICRONOX ON 16 does not generate any toxic by-products, and produces iron sulfide and sulfur, which are components that improve the properties of fertilizers.

#### Advantages of MICRONOX ON16

Com	parative table on the efficiency of different methods of desulfurization	MICRONOX ON 16	IRON CHLORIDE	BIOLOGICAL DESULFURIZATION	
	Corrosivity	<b>///</b>	XXX	xxx	
	Harmful substances	<b>///</b>	XXX	<b>///</b>	
	Methane concentration	<b>///</b>	<b>//</b>	XX	
	Handling	<b>//</b>	XXX	<b>//</b>	
Fr	iendly with the bacterial chain	<b>///</b>	XX	XX	
	Efficiency	<b>///</b>	<b>///</b>	<b>//</b>	
	Risk of explosion	<b>///</b>	<b>///</b>	X	
	Buffer effect	<b>///</b>	XXX	XXX	
1	Undesirable reaction product	None	Hydrochloric acid	Sulfuric acid	





## MICRONOX®ON16

Description	
Туре	Technical oxide
Delivery form	Powder
Chemical class	Mixture of iron oxides and iron hydroxides
CAS-No	20344-49-4/1317-60-8

Properties	Applications
Natural origin	Biogas desulfurization
Micronized material	Elimination / capture H <sub>2</sub> S
High specific surface	
High reactive and efficiency	

#### INFORMATIVE TECHNICAL DATA (guide values)

Typical Chemical Analysis (ICP-OES)

% Weight
70-73
44.0-45.8
13-15
4-6
2-3
1.5
0.5-1.5
0.3-0.1
<0.05
<0.005

Mineralogical Analysis (DRX)

Oxides	Formula	Weight
		%
Goethite	FeOOH	63-65
Hematites	a-Fe₂O₃	7-10
Mica-group	-group (K,Na)(A1,Mg,Fe) <sub>2</sub>	
minerals	((Si,A1) <sub>4</sub> O <sub>10</sub> )(OH) <sub>2</sub>	
Quartz	a-SiO <sub>2</sub>	8-9
Amorphous		13-15

Granulometric Distribution (Laser diffraction)

Average particle size ( $\mu$ m): 2.00 ( $\pm$ 0.20) Maximum particle size ( $\mu$ m): 10.00 ( $\pm$ 0.10)

BET: 44.8 m²/g

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