

Comparison of Desulphurisation Methods in Anaerobic Digestion Plants

	<i>SBGx</i>	<i>Iron Oxide</i>	<i>Iron Oxide-Hydroxide</i>	<i>Iron Chloride</i>	<i>Air Injection</i>
<i>Investment into</i>					
Storage and Handling	low	low	low	high	none
Dosing Equipment	none / low	none / low	medium	medium	medium
<i>Risk of / to</i>					
Exposure / Personnel	low	low	low	high	none
Explosion	low	low	low	low	high
Corrosion	low	low	low	high, HCl	high, H ₂ SO ₄
Incompatibility	low	low	low	high	high
Gas Impurities	low	low	low	low	high
Reaction Products	none	none		HCl	H ₂ SO ₄
<i>Characteristics</i>					
Reactive Content	> 60%	30% - 60%	10% - 15%	10% - 14%	none
Digestion Speed / Volume	high	low	low	high	low
Deposit Effect	high	high	medium	none	none
Methanogen Growth	increased	normal	normal	negative	negative
Gas Yield over Normal	higher	normal	normal	negative	negative
Trace Element Addition	not necessary	required	required	required	required
Shelf Life	> 12 months	> 12 months	< 12 months	< 12 months	none
Price per chem. Reaction	medium	high	medium	high	none