

Why Do Business with Benzaco?

Odor-Armor® vs Other Methods of Odor Control

ODOR-ARMOR®

Disadvantages

Advantages

True Subtractive Odor Control
—neutralizes & eliminates odor

You haven't started using
ODOR-ARMOR® yet

Subtractive Odor Control
—truly eliminates odors;
does not mask; does not
perfume

No offensive by-products
or perfume odors

Biodegradable—ALL
components of
ODOR-ARMOR® & the
compounds they form are
biodegradable & non-
hazardous

Safe & non-corrosive
with no restricted or
regulated ingredients

Broad spectrum of odor
application

Highly flexible in
application

Cost effective

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There are other numerous chemical methods used in direct odor control or to augment mechanical methods. Chemicals can be fed directly to the waste or process stream to control the odor at the source. While these methods may have one or two advantages, they are often only effective on one process in one or two applications.

Masking Agents

—added to atmosphere to cover malodorous compounds

Advantages

Works on low level odors

Disadvantages

Masks or perfumes odor; doesn't eliminate it

ADDS to overall odor intensity

Not effective on broad range odors

Odor breakthroughs are often worse adding to costs

Can be hazardous to handle

pH Control

—use caustic or acid to control generation of odor

Advantages

Can be effective if controlled in correct range

Disadvantages

Difficult to control pH

pH variations can worsen certain odors

Not effective on all odor compounds

Can be very corrosive to systems

May inhibit bacteria in bio or activated sludge systems

Liquid or solid phase only

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Oxidizers

—Chlorine/chlorine dioxide/
peracetic acid/ozone

Advantages

Effective at eliminating
odors at the source

Disadvantages

Some are very costly to generate and use

Can be hazardous to personnel

Not cost effective in most applications because of system demands

Non-specific attack on bacteria

Can't be used in bio systems

Difficult to control

Limitations on applications

Odor breakthrough can occur

Liquid or solid phase control only

Biocide Addition

—control anaerobic bacteria with biocide additives

Advantages

Can very effectively kill sulfate reducers and eliminate sulfide

Disadvantages

Kills ALL bacteria even beneficial

Ineffective on other odor components

Not cost effective

EPA issues in application

For more information on Benzaco Scientific engineered solutions for odor control, visit our website www.benzaco.com or contact us toll free at 888.413.5800