

Zebec Biologicals

Z-BIO IDU200

Bio-Augmentation of DAF Units &
Industrial Grease Traps

DESCRIPTION

Z-BIO IDU200 is a highly concentrated powdered formulation, containing a synergistic blend of selectively adapted bacteria, surfactant, and enzymes specifically formulated for the biodegradation of oil & grease in sewer lines and municipal sewage treatment plants.

The product is recommended for a wide variety of municipal applications involving problematic accumulations of FOG.

APPLICATIONS

Z-BIO IDU200 is routinely used by plant operators in Lift Stations, Degreasers, Primary Clarifiers & Aeration Basins.

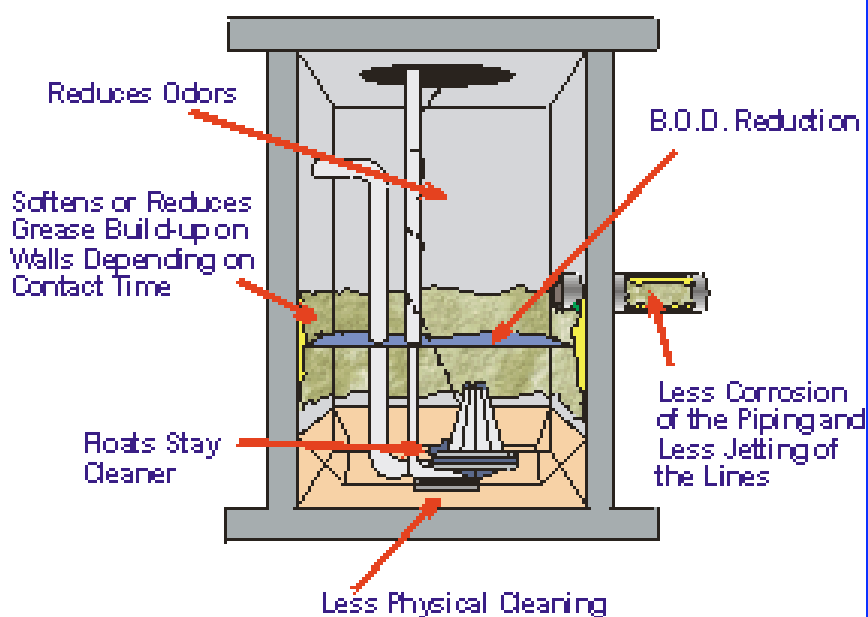
When introduced into the system, the product dissolves rapidly and releases its highly active biological materials which will emulsify, liquefy & digest oil and grease.

Z-BIO IDU200 is formulated to:

- Degrade long chain fatty acids that are known to be persistent and cause 80% of deposits.
- Associate with the hydrophobic phase.
- Grow at low pH.
- Degrade Odour Causing Short- Chain Volatile Fatty Acids.

SYSTEM BENEFITS

- Reduces Line & Pump Station Maintenance Costs.
- Liquefies & Degrade Oil & Grease that upset Degreaser.
- Enhances the oxygen transfer in the Aeration Basin
- Enhances Organic Removal Efficiency
- Lowers Effluent BOD & COD.
- Reduces Foaming over the Aeration Basin Surface.
- Eliminates Bad Odours due to Grease Deposits.



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DIRECTIONS FOR USE

Z-BIO IDU200 can be added directly to any of the following systems, depending on the locations affected by grease problems :

- Lift Station;
- Degreaser;
- Primary Clarifier;
- Aeration Basin.

It is added, without preliminary preparation, to the sewage.

The standard dosage rate is 4 **IDU200** Sachets per week. However, up to six weeks of elevated doses may be required to implement the new active biomass.

These doses are related to the daily flow rate in m³/day (see the table below).

FLOW (m ³ /day)	Seeding (weeks 1 & 2)	Maintenance (weeks 3 to 6)	Regular maintenance
< 100	8 Sachets / week	4 Sachets / week	4 Sachets/week
100 - 200	16 "	6 "	
200 - 500	32 "	8 "	
For higher flow rates, the use of the 1kg Bag is recommended. Contact our technical department for technical advice.			

CHARACTERISTICS

- Contains vegetative and spore forming bacterial strains capable of utilizing aerobic, facultative & fermentative metabolic pathways.
- Rapid germination and outgrowth of spores.
- Bacteria can colonize a wide variety of surfaces to produce long-lasting effects.

Bacterial count : 5 x 10⁹ cfu / g.
Appearance : brown powder in water-soluble sachet
Odour : yeast-like
Moisture content : 15 %
Density : 0,50 -0,61 g/cm³

Packaging: Container with either:

- (1) 50 water soluble sachets of 230g each.
- (2) 6 x 1kg Slow Release Soluble Bags

Storage and Handling:

- Store in a cool dark place
- Avoid eye contact
- Do not ingest
- Wash hands thoroughly with warm soapy water after handling