

# Drain Treatment Microbes

## IDC 1000 Industrial Drain Cleaner



### Applications

Blocked or slow-running drains are often a problem in production areas that generate high organic strength waste streams and can cause overflows, odors and encourage pest infestations. These conditions degrade the working environment and may require the use of odor masking agents, strong chemical oxidizers or pest control chemicals. At their worst, physical cleaning is frequently required to prevent or minimize production slow downs or stoppages.

**IDC 1000** with *BioS 3112™* represents a natural, safe and cost effective biological treatment for drain lines in industrial environments. *BioS 3112™* is a new, patented *Bacillus* strain that gives a novel, stable, spore-forming bacterium that degrades the recalcitrant long-chain fatty acids associated with grease. The introduction of *BioS 3112™* into a microbial blend that also performs well on proteins, lipids and carbohydrates delivers a superb biological consortium for drain line treatment.

### Benefits

- **IDC 1000's** microbial blend degrades and digests grease, short-chain and long-chain fatty acids, proteins, lipids and carbohydrates.
- **IDC 1000** is a premium drain line product with a concentrated formulation designed to develop a layer of microbes that degrade accumulated deposits.
- The highly developed bacterial consortium in **IDC 1000** degrades organics via aerobic and facultative metabolic pathways. The cornerstone of this consortium is the patented *BioS 3112™* strain that effectively degrades the stubborn long chain fatty acids that are the major contributors to the greasy drain line buildups that cause the majority of maintenance problems
- **IDC 1000's** proprietary formulation incorporates a respiratory modifier that simultaneously prevents the formation of odor causing compounds such as hydrogen sulfide and the rancid, foul-odored volatile fatty acids that result.
- The partial breakdown of grease causes pH to drop, creating an environment that is inhibitory to most bacteria. *BioS 3112™* is active at the low pH levels generated. Furthermore, the addition of **IDC 1000** alleviates low pH problems by breaking down both short- and long-chain fatty acids, thus maintaining an environment more amenable to active microbial degradation.
- By eliminating large drain line deposits and providing a respiratory modifier, **IDC 1000** eliminates the anaerobic zones and the associated malodors that produce poor working conditions.



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- **IDC 1000** is a biodegradable, safe alternative to maintenance with physical or harsh chemical means that may add cost, potential worker hazards and capital expenditure. **IDC 1000** does not contain solvents.
- **IDC 1000** is a ready-to-use formulation that can be applied manually or by using an automatic dosing system.



### Product Characteristics

Bacteria Count	20.0 x 10 <sup>7</sup> CFU/ml (750 Billion/gal)
Stability	10° - 45°C (50° - 113°F)
pH range	8.1 - 8.5

### Available Packaging

- 5 gallon pail
- 55 gallon drum

### Storage and Handling

Store in a dry place, 10° - 45°C (50°-113°F). Wash hands thoroughly with warm, soapy water after handling. Avoid eye contact.

### Optimum Conditions for Use

Bacteria in IFM's **IDC 1000** perform within a pH range of 4.5 - 8.5 with optimum typically near 7.0. Temperature affects the activity of the working solution with bacterial action increasing with rising temperatures up to 45°C (113°F). Reduced activity may be expected below 10°C (50°F).



**Figure 4.** The photos illustrate a dramatic difference on grease treated with product containing BioS 3112. The control and non-BioS 3112-treated grease experienced 1.5% and 6.5% solids losses, respectively, while the BioS 3112 treated cells lost 42.9% of their solids.

Industrial Fluid Management  
IFM, Inc.  
2926 US Highway 6  
McClure, OH 43534

[www.ifmenviro.com](http://www.ifmenviro.com)

Customer Service Orders:  
Phone: 419-748-7438

Fax Orders:  
419-748-7460

E-mail Orders:  
ifminfo@ifmenviro.com



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