



Why Bio-Desolve Grease Trap & Drain Line Treatment has the Advantage over the Competition:

1. What sets Bio-Desolve apart from other products on the market?

It is our **activated, liquefied carbon** and how it affects oil and grease, which allow the bacteria already present and abundant in the system to thrive. Activated carbon has a unique quality that ties up the bond that normally allows grease to coagulate. It also has a tremendous surface area (one gram of activated carbon has a surface area of 500msq – 1500msq). It is these properties that set Bio-Desolve apart from all others.

Each grease/oil molecule becomes encapsulated by the activated carbon added to the grease trap, which increases the surface area for the bacteria to multiply by 1000+ times, thus using the food source (grease/oils) more rapidly. In normal conditions of a grease trap, there is a layer of grease/oil that stays suspended at the top, and the bacteria generally reproduce on the bottom portion of this grease/oil mat, where the surface area is very small for the bacteria to feed and multiply. Bacteria can travel and thrive within each activated carbon capsule, using the grease or oil molecule for food and energy. This process can increase the population of bacteria by the billions in a 20-30 gallon grease trap.

Our activated carbon acts as a protector for the bacteria - also encapsulating the toxins and chemicals ever-present in grease traps, which typically harm or kill off the bacteria in a system. With products that are strictly bacterial strains, the conditions in the grease traps need to be optimal for them to perform properly. Without a protector such as Bio-Desolve's activated carbon, the bacteria are easily attacked and killed off by the toxins and chemicals in grease traps. This is why straight bacteria products need higher dosages - to ensure at least some of the bacteria can survive.

Finally, the activated carbon in Bio-Desolve acts as a nutrient source to kick-start failing bacteria already present in the system to get them functioning properly again.

2. Amount of product needed for the same results. As mentioned in point 1, products using only bacteria or only enzymes need to administer higher dosages of product into the grease trap to achieve results, due to the fact that there is nothing in the product to protect the bacteria.

3. Treating and removing the toxins from the system, instead of just pushing them through the infrastructure. With Bio-Desolve, the microbes and beneficial bacteria attach to FOG's and other organic materials within the grease trap and lines leading to the sewer or septic system. They feed on the FOG's, breaking down the molecular structure into simpler components (water soluble free fatty acids), which they then consume as a food source. During this process, the melting point of the FOG's is lowered, meaning they can withstand cooler water temperatures without solidifying - leaving the traps, drains and subsequent infrastructure with fewer clogs and blockages.

4. Many competitors research relies heavily on the fact that additional **enzymes are needed**, even though enzyme creation is the natural end result of any beneficial bacteria's life cycle. As bacteria metabolize, grow and divide, they naturally produce enzymes. Therefore, enzymes are created in any product using bacteria, and this is why strictly enzyme based grease trap treatments are not necessary.



Day 1 – Before Bio-Desolve use



Day 15 – using Bio-Desolve



Day 35 – using Bio-Desolve



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