



Technical Data Sheet

1.0 Introduction :

Fermenta Biotech Ltd is a pioneering biotech company, since 1986 focusing on research based Biotech products. Our core strength lies in developing novel Bio-enzymes for varied industrial application enabling us to provide total & integrated biotech solutions.

2.0 Product overview :

FERMSEPT® – E is the synergistic blend of naturally selected beneficial, harmless and robust bacteria, macro and micro nutrients, and biological additives with enhanced microbial colonization in organic effluents. It is a synergistic blend of natural bio-enzyme preparation capable of converting complex compounds like fat, protein, starch, cellulose to simpler ones in an Effluent Treatment Plant.

FERMSEPT® – E is specially designed for commissioning and stabilization of ETP and anaerobic treatment plant.

3.0 Application :

- Textile industry
- Paper and pulp industry
- Fish processing industry
- Dairy and Milk process industry
- Food processing industry
- Pharmaceutical companies

4.0 Mode of action :

Bacteria in FERMSEPT® – E produces various enzymes capable of breaking down complex compounds to simpler ones, hence degrades the organic waste more rapidly and efficiently. By this virtue, it helps to improve the MLSS faster, makes the process more stable and makes the entire system more efficient in ETP/WWTP's.

FERMSEPT® – E breaks down and degrades organic & inorganic materials that cause unpleasant odors into odorless compounds.

- Fats to glycerol and fatty acids
- Proteins to aminoacids
- Cellulose to sugars
- Starch to glucose

5.0 Product specifications :

Colour	Tan to off white
Nature	Fluffy dry powder, added in luke warm water for activation
Odour	Odourless
Dispersibility in water	High
Active ingredients	Mixture of selective Bacillus strains producing various enzymes like lipase, protease, amylase, cellulase
Strain speciality	Non-GMO organism with inducible enzyme system

6.0 Advantages :

- Reduction of BOD, COD and TSS within PCB norms
- Increase the efficiency of the existing treatment plant
- Reduction in operational cost, as there is no requirement of cow dung, DAP, urea
- Efficient and fast decomposition of the organic material (e.g. fatty acids, animal and vegetable fats, grease, proteins and carbohydrates)
- Reduction of Odor
- Reduction of Oil & grease
- Improves the efficiency of UASB and Anaerobic lagoon
- Anaerobic biodegradation improves
- Increase in MLSS drastically
- Treated water can be reused for irrigation purpose
- Shock loads are better absorbed
- Environment friendly

7.0 Application point :

- Collection tank / equalisation tank
- Aeration tank
- Anaerobic treatment plant
- USAB / Anaerobic lagoon

8.0 Usage procedure :

- Mix 1 kg of FERMSEPT[®] – E in 4 litres of luke warm water/ETP treated water (1:4) and keep for 30 minutes
- Mix the suspension gently for proper dispersion
- Dose the suspension at the appropriate application point

9.0 Safety :

This product is non-toxic, non-pathogenic non-hazardous, non-contagious, non-corrosive. Bacteria used are from WHO recommended natural strains for safety which are not genetically modified, hence poses no threat to environment. It creates no heat, no fumes, no boiling. It does not attack live tissue or any inorganic materials.

10.0 Storage and transport stability :

Product can be stored at room temperature under dry conditions. Product stability is for 18 months if stored at cool and dry place. The product is safe to transport by any means of surface transport and air transport.



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