

Bio-STAR™ Industrie+

Treatment of industrial wastewater

Bio-STAR Industrie+ was specifically designed for the bioaugmentation of industrial and manufacturing wastewater. This product contains a diverse combination of eleven microorganisms selected for their effectiveness in treating highly concentrated industrial effluents. Effluents with high organic matter content and significant chemical oxygen demand (COD) can contain various types of near-toxic or toxic compounds that are resistant to conventional biological treatments and can impair the operation of wastewater treatment plants. The use of **Bio-STAR Industrie+** optimizes the degradation processes of complex organic waste, thereby improving the performance of the treatment system.

Its synergistic formulation composed of natural bacteria effectively attacks and degrades a wide range of chemical compounds such as phenols, benzenes, aliphatic and aromatic hydrocarbons, creosoles, naphthalenes, amines, formaldehyde, glycols, heterocycles, ethoxylated phenols, waxes and other hard-to-treat compounds.

Bio-STAR Industrie+ also contains biological polymerization strains known for their excellent flocculation capacity. Its use therefore helps reduce the amount of polymers used to lower suspended solids in the effluent. This product has also been used to limit antifoam consumption in systems where foam formation results from incomplete degradation.



APPLICATIONS

- Steel industry
- Textile industry
- Pharmaceutical
- Agri-food processing
- Chemical industry (paint, phenolic resin, lubricants...)
- Petrochemical industry
- Landfill leachate

Bio-STAR™ Industrie+

BENEFITS

- Degrades a wide range of chemical compounds that can inhibit microbial growth
- Improves the degradation of organic loads measured by BOD/COD/TOC
- Reduces effluent toxicity to promote the stability of nitrifying biomass
- Improves flocculation and settling rate, thereby reducing polymer consumption
- Improves biomass stability and resistance during organic overload or treatment disturbances
- Reduces odor emissions by targeting organic acids and organosulfur compounds
- Degrades cyanides

PRODUCT CHARACTERISTICS

Bacterial count	5 x 10 ⁹ cfu/gram
Bacteria types	Bacillus and Pseudomonas
Biological pathways	Aerobic and facultative anaerobic
pH range	5.5 – 9.0 (optimal 6.5-8.0)
Temperature range	5°C – 45°C (optimal 20°C-35°C)
Appearance	Tan powder with black particles
Shelf life	2 years

Safety

Bio-STAR Industrie+ contains natural, non-genetically modified bacteria that have undergone rigorous antibiotic resistance testing. Simple hygiene practices are recommended during use. Do not ingest this product. Avoid contact with eyes and skin. Wash hands with soap and water after each use. Avoid situations that promote dust accumulation in confined spaces. Some people may be sensitive to the chemical compounds in this product. If irritation occurs, avoid direct skin contact.

Storage

Store in a cool, dry place. Avoid extreme temperatures and excessive humidity. Products exposed to temperatures above 45°C or below 0°C for extended periods may be damaged.



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