

NITRO-ZYME 300 – TECHNICAL DATA SHEET

Biological Additive for Wastewater Treatment Plants

What is Nitro-Zyme 300 ?

NitroZyme 300 is a potent mixture of viable bacterial culture, *Micrococcus* sp., white rot fungi, peroxidases, micro- and macro-nutrients and a carbon source formulated specifically to breakdown COD, suspended solids (SS) and a variety of non-biodegradable organics.

Industrial Applications

- Steel mills
- Paper mills
- Dye industries
- Tanneries
- Automotive
- Municipal sewage
- Refineries

Instructions for Use

The product must be added directly in the aerated basin (Biological Pond) as follows:

Initial Treatment Example

For an aerated basin with a capacity of 5000 m³

1st day: Add 2000 kg.

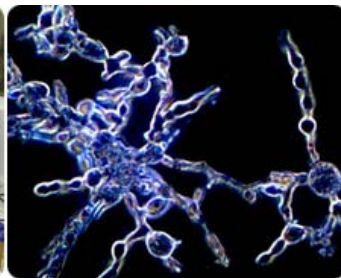
3rd day: Add 1000 kg.

5th day: Add 500 kg.

10th day: Add 400 kg.

Regular Maintenance Example

Add between 100 and 150 kg/24 hours.



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Physical and Chemical Properties

Appearance: powder

Specific Gravity: not applicable

Colour: black

Flash Point: none

Pour Point: not applicable

Vapour Pressure: not applicable

Biodegradability: 100%

Biodegradation of Various Inorganic and Organic Cyanides by Nitro-Zyme 300 at 20°C

Compound	Concentration (Mg/L)	Disruption %	Time (hours)
Acetonitrile	200	100	1.5
Butyronitrile	200	100	2.0
Acrylonitrile	200	100	4.0
Methacrylonitrile	200	100	3.5
Phenylacetonitrile	200	100	8.0
Phenylnitrile	200	100	8.0
Phthalonitrile	200	100	9.5
Phenyl Isocyanate	20	100	8.0
Dichlorophenyl Isocyanate	200	100	8.0
NACN	200	100	0.4
HCN	200	100	0.1