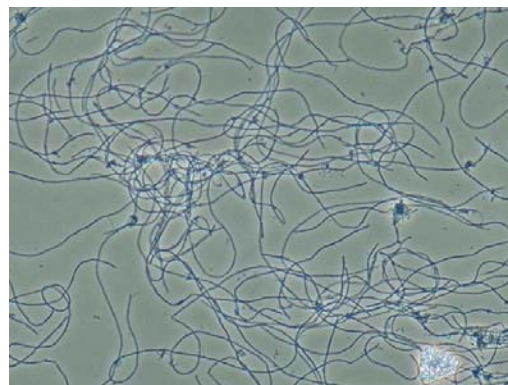


MICROCAT[®] - XF

NATURAL FILAMENTOUS GROWTH INHIBITOR FOR WASTEWATER TREATMENT PLANTS

■ DESCRIPTION:

MICROCAT-XF is a synergistic blend of preselected, adapted microorganisms for use in wastewater treatment plants receiving municipal, pulp and paper, brewery, food processing and related wastes. Such wastes frequently cause sludge bulking in secondary clarifiers.



■ APPLICATIONS:

Biological wastewater treating plants receiving municipal, pulp and paper, brewery and food processing wastes from time-to-time encounter operating difficulties due to filamentous bulking. **MICROCAT-XF** is formulated to reduce filamentous microbe populations, improve sludge settling and reduce effluent suspended solids. When used on a preventive maintenance basis, this product can enhance overall system performance while reducing operating costs. **MICROCAT-XF** contains a combination of aerobic and facultative anaerobic microorganisms selected from nature for their ability to break down a broad range of substances encountered in domestic and food processing wastes. It also contains enzymes and other ingredients selected to destabilize the protein sheath protecting many filamentous forms.

■ PRODUCT CHARACTERISTICS:

Appearance	Beige, granular powder
Contents	Preselected, adapted microorganisms and ancillary enzymes
Nominal Microbe Count	$>3 \times 10^9$ /gram
Shelf Life	Two Years
Packaging	11.3 Kg plastic pails / 100 Kg fiber drums

■ APPLICATION PROGRAMS:

In general, **MICROCAT-XF** is applied directly to the aeration zone of the waste treatment plant on a regular preventive maintenance basis. Application programs range from about 3 Kg per 1000 m³ /day per day to 0.12 Kg per 1000 m³ /day per day. Your QM Environmental Services Technical Representative will provide you with a custom-tailored application program to fit the specific needs of your treatment system.

■ OPTIMAL APPLICATION CONDITIONS

For best results, apply this product under the following conditions:

CONDITION	RANGE	OPTIMUM
Dissolved Oxygen, ppm	0.5 - 2.5	2.0
pH	6 - 9	7
Temperature, ° C	10 - 40	35
Toxic Heavy Metals, ppm	Trace	None
Nutrients: BOD: NH ₃ -N BOD: PO ₄ -P	10 : 1 - 10 : 0.5 100 - 1 - 100 : 0.5	10 : 1 100 : 1

■ STORAGE AND HANDLING:

Storage	7° - 40° C (45° - 105° F) Dry conditions; DO NOT FREEZE
Handling	CAUTION Avoid inhalation of dry powder or liquid mist. Avoid exposing skin to dry powder or strong solution as irritation may result. If material contacts skin or eyes flush thoroughly and repeatedly with water.