



Water & Environmental Technologies

BioQuick 5140

All Wastewater Types

Reduces production delays and accelerates discharge compliance for new plant start-up

The successful start-up of a biological wastewater treatment plant requires a specific series of events involving the microbial community. First, the activated sludge needs to build to a concentration sufficient for removing organics within the designed hydraulic retention time. Second, it needs to form good floc and settle well. If one of these events does not happen, the start-up period can drag on for weeks, causing delays and possible production hold-ups for industrial plants.

A well-developed microbial community can take weeks or months to become established with only native microorganisms. Importing seed sludge can shorten the start-up period if a reliable source is available, and it can be transported to the plant. Unfortunately, imported seed sludge may create other start-up delays and additional problems, as the sludge has not developed with the same substrate and requires an adaptation period or may contain nuisance organisms such as filaments.

BioQuick 5140: Preinnoculated Porous Media for Rapidly Developing an Established Microbial Community

BioQuick 5140 contains beneficial microorganisms included on a microporous mineral carrier with important trace elements. When added to an aeration basin, the carrier acts as a support medium and provides attachment sites for bacterial growth, while the micronutrients and microorganisms help accelerate biomass development. As the microbial community develops, BioQuick 5140 helps floc particles increase in size, mass, and settleability. BioQuick 5140 should be used in conjunction with other EnviroZyme® microbial products for start-ups and upset recoveries. This combined use will allow the process to happen faster and with greater predictability.

The Benefits of Using BioQuick 5140

Lower operating costs

- Reduces surcharges
- Reduces permit violations
- Reduces production delays

Improved plant efficiency

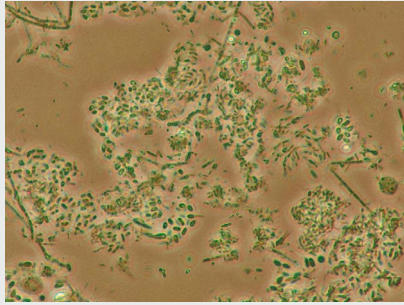
- Quickly builds biomass
- Improves flocculation
- Improves settleability

Simplified operations

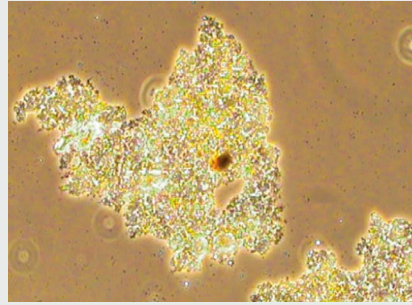
- Shortens start-up period
- Makes start-ups execution more predictable
- Prevents filament contamination common with importing sludge from other systems

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Before



After

Fig. 1 Large and dense floc particles after a successful start-up using BioQuick 5140.

Micro Solutions. Major Impact.

Clean water is essential for healthy people and a healthy planet. EnviroZyme’s microbial solutions use bioaugmentation to naturally and efficiently treat water before it’s returned back into the system. Our team of experts have come together to create environmentally-focused microbial solutions and technical services to support water resource recovery facilities in their global quest to provide clean water.

Billions of microorganisms at your service.

SKU #	PRODUCT	BENEFITS	SIZE
Enhance Floc Formation			
WTP951B26	BioQuick 5140	BioQuick 5140 provides attachment sites for bacterial growth, microorganisms, and micronutrients to help accelerate the development of the microbial community.	25 KG (55 lbs.)

400 Van Camp Road
Bowling Green, OH 43402

1690 Huron Church Road, Suite 169
Windsor ON N9C0AC CA

EnviroZyme France S.A.S.
43 rue de Liège
75008 Paris, France

800.232.2847 | envirozyme.com
customerservice@envirozyme.com

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Item #E929-9216 06/23