

# CHM-BEC 118

special blend of bacterial cultures, specifically selected to improve their ability to degrade pulping wastes

## Overview

Chemtech's CHM-BEC 118 was developed to address the daily challenge presented to environmental and wastewater professionals in the *pulp and paper industry*. Companies may find it difficult in allocating capital to address the ever-tightening environmental restrictions; therefore, these professionals are expected to do more with less by squeezing every ounce of performance out of the current wastewater treatment system.

CHM-BEC 118 is an innovative and natural solution that allows the mill to meet its environmental requirements, while also realizing its financial goals.

CHM-BEC 118 is a proprietary blend of different microbes. The diversity of the bacteria strains makes the product more efficient as different types of bacteria degrade different compounds with varying effectiveness. Chemtech has made a conscious effort to address the removal/reduction of cellulose solids, resin acids, sludge and BOD.

We understand that excellent water quality is life blood of a paper mill as it prevents pollutant discharge and ensures that effluent is kept within compliance of the increasing regulatory standards. Without attention to these details pulp and paper mills may find themselves under the scrutiny of regulatory agencies, be faced with wastewater effluent surcharges, or large capital expenditures in finding mechanical means to keep effluent within standards.

### applications

- wastewater plants
- oxidation ditches
- holding tanks
- lift stations
- reactors & contractors
- activated sludge
- waste pumps

## Advantages of CHM-BEC 118

- \*\* Degrades a wide range of complex organics
- \*\* Greatly reduces labor time
- \*\* Enhances BOD/COD removal
- \*\* Reduces Hydrogen Sulfide
- \* Cost-effective & easy to use
- \*\* Reduces sludge build-up
- \*\* Changes biomass dynamics
- \*\* Increases system efficiency
- \*\* Contains no chemicals
- \*\* Eliminates malodors at their source
- \*\* No special equipment needed
- \*\* Breaks down fat & grease build-up

# Technical Specification of CHM-BEC 118

<b>Targeted Compounds</b>	<b>Black/Green Liquor    Starch Ammonia                    High BOD Cellulose                   Lignin Hydrogen Sulfide Odors Pine Soap &amp; Tall Oil</b>
<b>Bacterial Type</b>	<b>Bacillus Spores &amp; Vegetative microorganisms</b>
<b>Bacterial Count</b>	<b>5.2 billion (5.2x10<sup>9</sup>) cfu/gram</b>
<b>Typical Properties</b>	<b>Appearance - tan Shelf life - 24 months. Fragrance – mild-earthly Form – free flowing powder</b>
<b>Performance Properties</b>	<b>Effective pH range: 5.0 – 9.5 Temperature range: 45 - 120°F (5 - 50°C)</b>
<b>Packaging</b>	<b>Packaged in 25, 30, 50, 100, 400 lbs (11.4, 13.6, 22.7, 45.4, 181.8 kg) plastic pails or fiber drums</b>

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