

## Client

Baiersbronn Karton GmbH, Germany

## Project aims

To pre-thicken bio-sludge, making it easier to treat when mixed with primary sludge.

## Type of Installation

Algas AMF 4 A Microfilter



*The bio-sludge after flocculation and before filtering*

## Background

Baiersbronn Karton, is producing Chromo board and Chromo duplex board from 80% groundwood and 20% pulp. The excess bio-sludge had a consistency of 0,75% and badly effected final thickening efficiency when mixed with primary sludge.



*Detail from cleaning of the cloth*

## Solution

Trials proved that if mixed with a little primary sludge, polymer added and treated in the Microfilter, the resulting sludge was ca 10% and the clear filtrate good enough for re-use.



*Good thickening to 11 %*

## Result

The Algas Microfilter was ordered in 1991 and installed in 1992. The company has an agreement with Algas GmbH for a yearly service on the filter, including changing of filter cloths. The customer is very satisfied with the continuous good running of the filter.



*The filtrate is clear*

## Process data

Inlet flow	: 4,5-6 m <sup>3</sup> /h
Inlet consistency	: 0,75%
Outlet consistency reject	: 8-11%
Outlet consistency clarified water	: <100 ppm
Type of filter cloth fitted	: 120 micron
Normal drum speed	: < 1 rpm
Normal delta pi	: 3 cm

## Algas comments

It is a considerable benefit to have a high consistency of bio-sludge when mixed with the primary sludge before further thickening.