

## LOXIPULP BLACK BSN SLASHES DYE CONSUMPTION BY 63%

Customer: Tissue Mill North America

### ACTUAL BENEFITS

Reduced total dye consumption by 63%

Optimized dye fixative usage

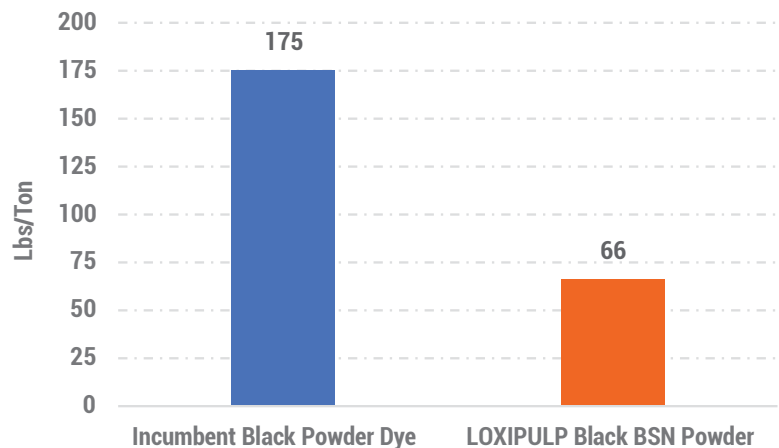
Reduced raw material costs

Improved labor through less handling

Less deliveries and decreased carbon footprint

Improved paper quality

### Black Dye Consumption



### Project

A Tissue Mill was dissatisfied with the consumption of dyes for the manufacture of their deep shaded black paper, therefore requesting LOXIM to review the dye system and recommend a suitable solution.

### Objectives

- Match the current black paper L\*, a\*, b\* shade values using LOXIM dye at an overall lower treatment cost.
- Ensure affinity with the existing mill fiber mix, chemistry and process.
- Maintain paper quality.
- Optimize dye fixation and fiber retention.

### Recommended Solution

Based on extensive LOXIM laboratory evaluations the recommended solution to enable the reduction of black dye consumption was LOXIPULP Black BSN Powder. LOXIPULP Black BSN Powder is a high strength and high purity black dye, particularly suitable for cost effectively producing deep black shades across a range of paper grades.

### Results Achieved

- Reduced black dye usage enabled the consumption of dye fixative to be significantly lowered.
- L\*, a\*, b\* shade targets exactly achieved using 63% less LOXIPULP Black BSN Powder compared to the incumbent product.
- Reduced black dye usage resulted in less handling of black dye bags for paper machine operators.
- Paper machine performance was maintained while paper properties improved.
- The Customer was extremely satisfied with LOXIM's papermaking knowledge, project management skills and actual benefits delivered.