

# Case Study: Low Basis Weight Fine Paper Mill Trial

Improved paper strength and machine runnability

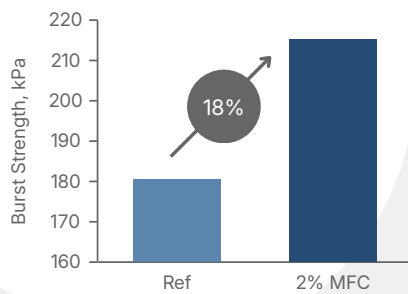
## Background:

- Offset paper: 50 g/m<sup>2</sup>
- Base paper filler level: 15%
  - Filler: GCC
- Integrated hardwood pulp
- MFC produced with G250 grinder using eucalyptus pulp

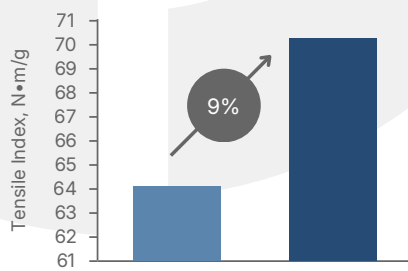
## Trial objectives:

- 2% MFC dose
- Base paper filler level maintained at 15%
- Demonstrate improved paper strength and machine runnability

## Improved Paper Strength

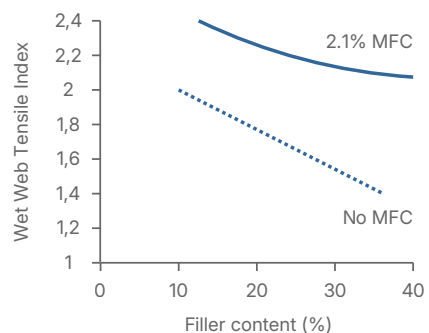
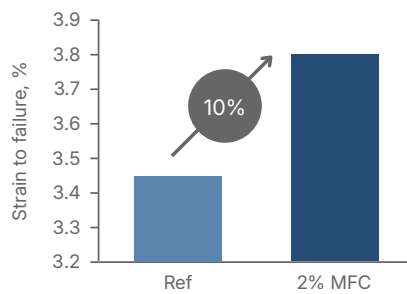


Improved burst by 18%



Improved tensile by 9%

## Improved Machine Runnability



Pilot plant study results using 450 CSF, 30:70 NBSK:BHK and GCC filler

## Trial Outcomes:

- ✓ **Burst** improved by **18%** and **tensile** improved by **9%**
- ✓ Paper machine **runnability improved** due to increased strain at break and wet tensile increase



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