Case study – 3: Tissue Paper

Fibers Optimization

Production: Tissue Paper

Fibers: Mix NBKP / LBKP / (Broke)

Basis weight: 17 g/m^2

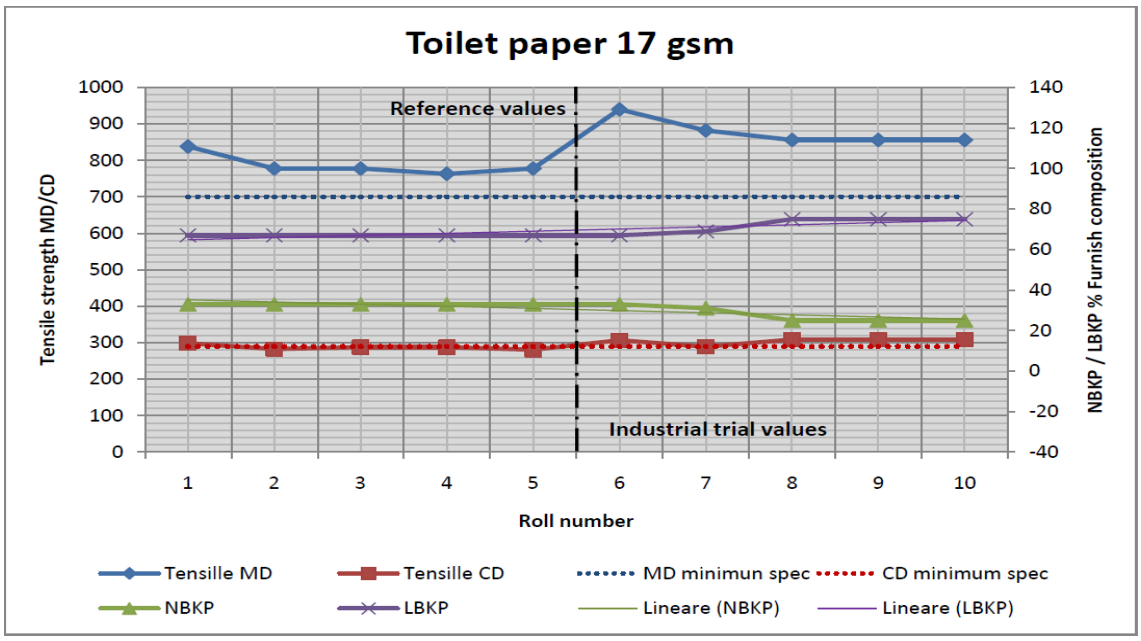
Output: 3.5 tp/h

TARGET:

Reduction of NBKP keeping CD and MD tensile strength.

INDUSTRIAL TEST:

NON-Ionic hydrocolloid has been added in the pulper (dry form pre-dispersed in water) at 0.5 kg/tp. In the picture below, addition started after the dotted line.



After the addition of our NON-Ionic hydrocolloid tensile parameters increased (both MD and CD) and Customer started to modify fibers composition reducing NBKP and increasing LBKP content.

ACHIEVEMENTS:

Addition of our NON-Ionic hydrocolloid at 0.5 kg/tp allows:

- Reduction of NBKP from 33% → 25% → **(-8%)**
- Increase of LBKP from 67% → 75% → **(+8%)**

Paper produced with a lower quantity of NBKP keeps bot tensile in MD and CD above the specs.