Fibre Conditioning

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Programme phase	Concept / bench study
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Purpose

Record the conditioning sequence used before controlled refining and wet ribbon formation. The objective was stable feed behaviour rather than maximum fibrillation.

Method summary

Kraft-derived cellulose feed was conditioned to a controlled moisture range, disintegrated in water and introduced to the refining stage in bounded laboratory batches. A long-fibre fraction was retained while a more highly refined fraction was used to support wet cohesion.

Observations

Excess refining improved wet cohesion but reduced drainage rate and increased variability during draw. Inconsistent initial moisture content was associated with unstable suspension consistency.

Parameter	Pilot range / note
Feed moisture	conditioned before pulping
Suspension consistency	controlled by batch mass balance
Refining intensity	low to moderate
Primary concern	repeatability of wet ribbon feed

Recovery note

Archive condition

This copy was reconstructed from a printed technical note and a partial PDF export. Original measurement appendices were not recovered.

Limitations

The note does not define a commercial process window and should not be interpreted as a specification.