

Causes, effects and solutions – Fiber quality

Reasons for claims

Natural variation in cotton

- Impact on spinning and fabric appearance

Shift in micronaire (fiber fineness)

- Impact on spinnability and resulting yarn quality
- Impact on barré
- Impact on tenacity variation

Fiber neps creation

- Imbalance of trash, short fibers and neps

Fiber damage

- Impact on processing and final yarn quality



Solutions for spinning mills

Laydown recommendations:

- Measure cotton fiber properties with Uster HVI
- Mix bales with narrow fiber fineness range (micronaire)
- Keep low variation between and within laydowns
- Consider multiple fiber characteristics

Measure blowroom and carding performance with Uster AFIS process control

- Regularly
- After machine maintenance
- After recipe change
- Different raw materials

Avoid neps and fiber damage, instead of fixing issues later

- Fine-tune settings
- Balance waste, opening and cleaning

Compare to Uster Statistics

- Identify potential