
Better Carding
Reduced invisible losses
Better Cleaning
ginTEX
Cotton Conditioners inc.
USA
Cleaner Spinning room
Reduced Lapping

SECRET TO EFFICIENT COTTON SPINNING LIES IN PRESERVATION OF WAX COATING ON THE COTTON FIBRE

Gintex is a fibre conditioner manufactured by M/s **Cotton Conditioners Inc.** , U.S.A.

Using Gintex, you can prevent damage to the wax coating present on the cotton fibre. This leads to a substantial quantitative and qualitative improvement in the spinning of cotton.

The Physics of fibre rupture in cotton :

- Cotton fibres consist of a crystalline cellulosic body covered by a wax coating.
- This wax coating protects the cellulosic crystal from losing its moisture.
- If this wax coating is damaged due to friction / abrasion, the cellulose is exposed to air and loses its moisture.
- When moisture is lost, the cellulosic crystal chain breaks and becomes amorphous or powdery.
- This powder then goes up in the air as dust and fly.

This causes -

a) Weakness in cotton fibre

b) Increase in short fibres

c) Increase in floating fibres and pollution

d) Decrease in yarn production

e) Increase in waste and droppings

How Gintex reduces this - Gintex coats the fibre and machine surfaces with a temporary layer of low friction coating, thus reducing the damage to the wax coating. This protects the cellulose and helps the smooth running of the mill. Our users have observed that the atmosphere of a Carded count mill starts to look like that of a Combed count mill within few days of Gintex application.

Gintex Fibre Conditioner

- Reduces pollution caused by floating fly and dust in the department.
- Improves smooth movement of fibre against various machine surfaces and ducts.yarn realisation.

Major benefits include -

- Cleaner Spinning room
- Reduced invisible fibre loss.
- Optimal Carding with reduced card-clothing maintenance.
- Reduction in energy usage due to less cuts in winding and reduced time in yarn conditioning lines.

Application of Gintex in the Cotton Blow-room :

Gintex can be applied in all types of blow-rooms.

The system is made very simple and can easily be maintained by the mill technicians.

Gintex is drawn by gravity and goes through a metering device to the nozzles. These nozzles spray a very small quantity of Gintex on to the cotton.The rate of application is very low, less than 2 litres per hour , in a blow-room with 1000 Kg /hour throughput.

We use compressed air of about 2-3 bar pressure to make a spray of the Gintex.

The device has been in operation on various bale pluckers , Lattice feeders and Circular bale pluckers.

Gintex has been in commercial use in several Indian mills on a regular basis. The cost of GINTEX is very well compensated by the cost benefits that accrue. We have received substantial repeat orders on a regular basis from these users.

The major observations by the users of Gintex in India :

1. Blow room droppings with fewer white waste.
2. Trash in the chute reduced.
3. Life of Licker-in and St.Flats increased and frequency of the Cylinder and Flat top grinding reduced.
4. Roller Lapping in Draw-frames and Combers reduced.
5. Fewer cleaning stops in the rotors and reduced number of cuts in automatic winders.
6. Overall condition in mill improves with smoother running everyday.

Scope Of Supply of Dispenser :

1. Silicone tube 200 metres and tube fittings
2. Metering Device 1
3. Nozzles 4 Nos.
4. Control Box .

Air at 6 bar pressure is needed along with Polyurethane tube of required length. Air consumption approx. 150 litres per minute at 2 bar.

Supplied By : **Eurasia Temac Private Limited**

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