BAG FABRIC FILTER TECHNOLOGY APPLICATIONS HANDLING OF CEMENT DUST

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1. Characteristics of pollution Cement industry
Cement dust arising at most stages of the production process including:
• Dust generated from the conveyor feeding.
• loading and unloading area and receive Clinker, additives, Gypsum.
• Area Crusher, Crushers, Screeners, Air separation and transport Systems.
• Packing, Export goods.
Overall, cement dust does not cause silicosis, but if the cement dust over 2% silicon free and long exposure in a long time, which may arise pneumoconiosis. Animals breathe cement dust does not cause a pathological changes of acute or chronic. However, the dust on the leaves and stems make the plant can not perform photosynthesis.
2. Process Technology Cement Dust

Dust - [GT] hoods - [GT] pipeline system - [GT] device filter bag - [GT] fans - [GT] chimney

3. Notes technological processes Cement Dust
The dust is collected at the position arising through the hood. The hood is connected to the piping bag filter device.
Air and dust passing through the filter cloth, original dust particles larger gap between the fibers will be retained on the surface of cloth sieve principle, the smaller particle adhesion on the surface of the fabric filter due to collisions, gravitational and electrostatic attraction, gradually thick layer of dust collected on filter aid as a film, this film keeps all the dust particles are very small in size.
Filter efficiency reached 99.8% and particle filter are all very small thanks layer filter aid. After a period of very thick layer of dust will make resistance of the membrane is too large, we have to stop for gas passing through and proceed to remove the dust layer on the surface of the fabric (this is called revert ability to filter)
After the last air filter equipment bag cited exhaust pipes and exhaust air.
4. Advantages and disadvantages of technology
a) Advantages:
- Technology proposals in accordance with the characteristics and nature of the emission source;
- Emission levels achieved after treatment QCVN 19: 2009 / BTNMT.
- Simple Structure.
- Performance relatively high dust filter.

- Small installation space.
b) Disadvantages:
- Requires the regeneration equipment and devices filter cloth filter rinsing.
- Heat Resistance of filtration equipment and generally low humidity fluctuations

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