Dust Suppression for Petroleum Coke: Production & Handling

Mike Lewis
Dust Management Specialist
P: 309-693-8600 C: 242-414-6538
mikel@dustboss.com
Dust Control Technology
What is atomized mist?
Who can benefit from atomized mist?
When would you use atomized mist?
Where do you use atomized mist?
Why use atomized mist?

- **Industrial Sprinkler**: 500 GPM (1893 lpm)
  - 4.92 in (12.49 cm)
- **Rain Storm**: 312 GPM (1181 lpm)
  - 3.0 in (7.62 cm)
- **Atomized Mist**: 23 GPM (88 lpm)
  - 0.17 in (0.43 cm)

Estimated inches per hour accumulation in 10,000 SF (929 SM) area.
Why use atomized mist?

- Dust particles smaller than the water droplet are more likely to get trapped in the surrounding airstream.
- Water droplets are more likely to collide with dust particles when they are roughly the same size.
Why use atomized mist?
How it works: Nozzles
How it works: Fan
How it works: Low turbulence
How it works:
Supporting elements
How it works: Requirements
How it works: Customization
Mike Lewis
Dust Management Specialist
P: 309-693-8600 C: 242-414-6538
mikel@dustboss.com
dustboss.com