

Dust Explosions Infographic

TYPES OF COMBUSTIBLE DUST



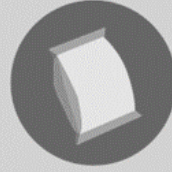
Agricultural Products

Sugars, Starches, Milks, etc.



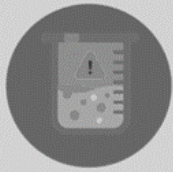
Agricultural Dusts

Flours, Hops, Gluten, Cotton, etc.



Carbonaceous Dusts

Charcoal, Cellulose, Corn, etc.



Chemical Dusts

Lactose, Sulfur, Calcium, Acetate, etc.



Metal Dusts

Aluminum, Zinc, Bronze, etc.



Plastic Dusts

Epoxy Resin, Poly Ethylene, etc.

DID YOU KNOW?

Grain dust is 9 times more combustible than coal dust!



FUGITIVE DUST & SECONDARY EXPLOSIONS



Fugitive dust is dust that is created and accumulated within a facility. It often becomes trapped in unnoticeable places such as overhead beams and above ceilings.

During a primary explosion, fugitive dust can ignite and produce secondary explosions

It is oftentimes the secondary explosion that is the most destructive.



FAMOUS CASES



1785

Giacomelli Bakery Explosion, 1st recorded dust explosion

2 injuries

1878

Washburn A Grain Mill Explosion

18 deaths

1977

Westwego Grain Explosion

36 deaths

2003

West Pharmaceuticals Fire (Plastics)

6 deaths

2008

Imperial Sugar Explosion

14 deaths

