



I-SA® CONDITIONING AGENT

The importance of the effective and optimum performance operation of your Bag House / Dust Collector

A PROTECTIVE DUST CAKE

For a bag house to operate efficiently, the filter media (bags) must capture and release the particulates during the cleaning cycle. The effectiveness of this process depends on the development of the dust cake (initially the first layer of dust cake on the bag) that protects the fabric interstices. A variety of particle shapes and sizes are needed to produce a porous and efficient dust cake. Particles that have similar shapes and sizes will form a dense dust cake layer that restricts airflow.

I-SA® vs. OTHER PRE-COATING / CONDITIONING AGENTS

I-SA® consists of microscopic particles that vary dramatically in size and shape, while most other pre-coating powders only have one particle size. I-SA® is also lighter than fly ash, lime and will not fall off (pulse) the bags during the cleaning process (cycle). Don't throw money down the hopper by using conventional pre-coating powders that don't work effectively in a bag house application.

CONVENTIONAL PRE-COATING POWDERS

Diatomaceous Earth

- Typically used for wet filtration applications.
- Introduces moisture and hydrocarbons into the gas stream.
- Moisture binds the diatomaceous earth to the filter surface, causing permanent blinding and loss of airflow.

Fly Ash

- Generally abrasive.
- Varying Ph from highly acidic to basic.
- May require pretreatment to alter hazardous material makeup.
- Material is heavy and often falls off bag.

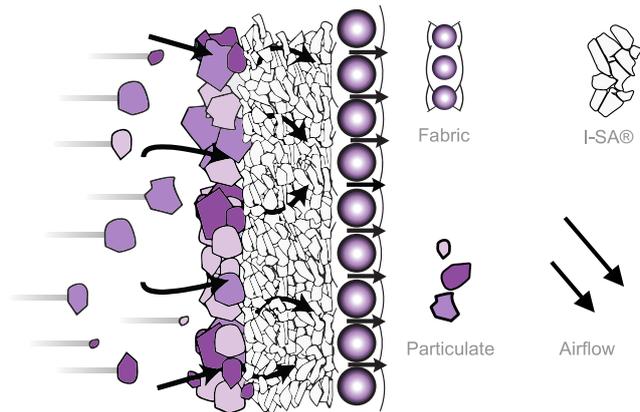
Lime

- Alkaline by nature.
- Presence of sulfur can form gypsum, leading to plugging or blinding of the filter bag.
- Similar particle size creates dense, compact dust cake.

NEW I-SA® CONDITIONING AGENT SOLELY SUPPLIED BY INVICTUS SA IN RSA

I-SA® CONDITIONING AGENT

- No detectable free silica content for a safer work environment.
- Light density aluminum silicate powder
- Varied particle size and shapes to prevent blinding of the filter bags.
- Works in a variety of applications.
- Absorbs hydrocarbons, moisture, and sparks.
- Proven to lower dP, increase airflow, and lower emissions.
- Provides a protective barrier between the filter media and sparks in the gas stream.
- Helps extinguish sparks before they damage the filter bag.
- Absorbs up to 300% its weight in moisture and 250% its weight in oil and hydrocarbons to help prevent filter bag damage.



By injecting an initial dust cake of I-SA® powder:

- The fabric is protected from the particulate.
- While still allowing airflow to pass through the dust cake.
- The result is lower differential pressure and higher collection efficiency.

INVICTUS SA

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