

Fact Sheet

BHA® Neutralite® Powder for BHA® PulsePleat® Filter Elements and Cartridges

BHA Neutralite Powder forms a protective, porous layer on filtration surfaces that helps prevent damage by particulate impact, gas stream contaminates, and sparks. The artificial dustcake it forms is a highly permeable barrier that enhances collection efficiency while allowing lower differential pressure. It effectively absorbs hydrocarbons and moisture in the gas stream, and helps prevent sulfate salt blinding at startup.

Description:

BHA Neutralite Powder is an Aluminum-Silica of light density. The inert white powder is primarily composed of finely divided, amorphous silica. It is fireproof, odorless, and has excellent absorption qualities.

Chemical Composition:

- Silica (SiO)
- Aluminum Oxide (Al₂O₃)
- Sodium Oxide (Na₂O)
- Potassium Oxide (K₂O).
- Magnesium Oxide (MgO)
- Calcium Oxide (CaO)
- Iron Oxide (Fe₂O₃)
- Moisture at 105° C (221° F) < 0.01%
- Flash point: None (will not burn)

Physical Properties:

- pH: 7.0
- Bulk density: 10 lbs/ft³ (0.13 kg/m³)
- Fusion point: 2300° F (1260° C)

Absorption:

- Water: 300+% by weight
- Oil: 250+% by weight

Usage:

BHA Neutralite Powder can be injected into a collector when filters are new to provide maximum protection to the filter surfaces. It can also be used as a “conditioning feed” by continuous addition in situations where high concentrations of contaminates are present in the gas stream. A conditioning feed provides continuous porosity control and can extend on-line time between cleaning cycles.

Coverage:

One pound of BHA Neutralite Powder should be used for every 100 square feet of filter surface. The light density results in much greater coverage per pound than heavier substances such as lime or fly ash. BHA Neutralite Powder won't fall off filters if injection guidelines are followed.

Injection Guidelines:

1. Turn cleaning system off and do not turn on again until Step 8
2. With process off, start up fan.
3. If possible, damper fan back to 50%.
4. Introduce BHA Neutralite into the ductwork upstream of the collector via an access door or port.
5. If the fan was dampered back, open it to 100% or to normal damper position.
6. Bring process on-line.
7. Let system operate until unit reaches normal operating pressure.
8. Turn on cleaning system.

NOTE: After BHA Neutralite Powder injection, do not shut off process fan for 6 hours or powder may dislodge from filter elements.

Packaging:

BHA Neutralite is shipped palletized in multi-wall paper bags. Bulk delivery is available.

