

# BRINK® AN FIBER BEDS MIST ELIMINATORS FOR AMMONIUM NITRATE PRILL TOWERS



AN Plume - Before Brink

## UNPARALLELED PERFORMANCE IN COLLECTION EFFICIENCY AND ELIMINATION OF SALTS PLUME.

Designing fiber bed mist eliminator systems for AN prill towers requires acute knowledge of salts formation and the effects they have on the efficiency and operation of the system and plant. To wash the AN salts and control their formation on and in the fiber beds, an irrigation system is a must. MECS® has designed and successfully deployed irrigation systems that use spray wetted mesh pads for pre-filtration and humidification. Additional element throat sprays are also used for effective fiber bed irrigation and wash down. This AN prill “scrubber” arrangement has resulted in very high efficiency, zero opacity and long fiber bed life. The largest single tower AN plant in the world, is a Brink® application.

The heart of this AN prill tower “scrubber” system is the Brink® Fiber Bed which employs 3 special design features for AN service.

- Glass, polyester and/or high temperature polymeric fiber for long life.
- Bulk pack or rigorous quality controlled fiber angle wrap for customized performance and pressure drop characteristics.
- Bi-component fiber bed for fast drainage of captured mist and irrigation artifacts for highest efficiency.

## FEATURES AND BENEFITS:

- HE+, High Efficiency Plus bulk packed fiber beds or ES, Energy Saver angle wraps may be recommended based on operating conditions and overall performance for each specific AN application.
- Unmatched experience and technology for irrigation and humidification of the fiber beds for reduction of AN salts build up.
- Customers have reported up to 10 years service life of their Brink® Fiber Beds in AN applications, including prill towers, neutralizers, evaporators and cooler/dryer drums.

## BI-COMPONENT DESIGN



HIGH EFFICIENCY PLUS – HE+



ENERGY SAVER – ES

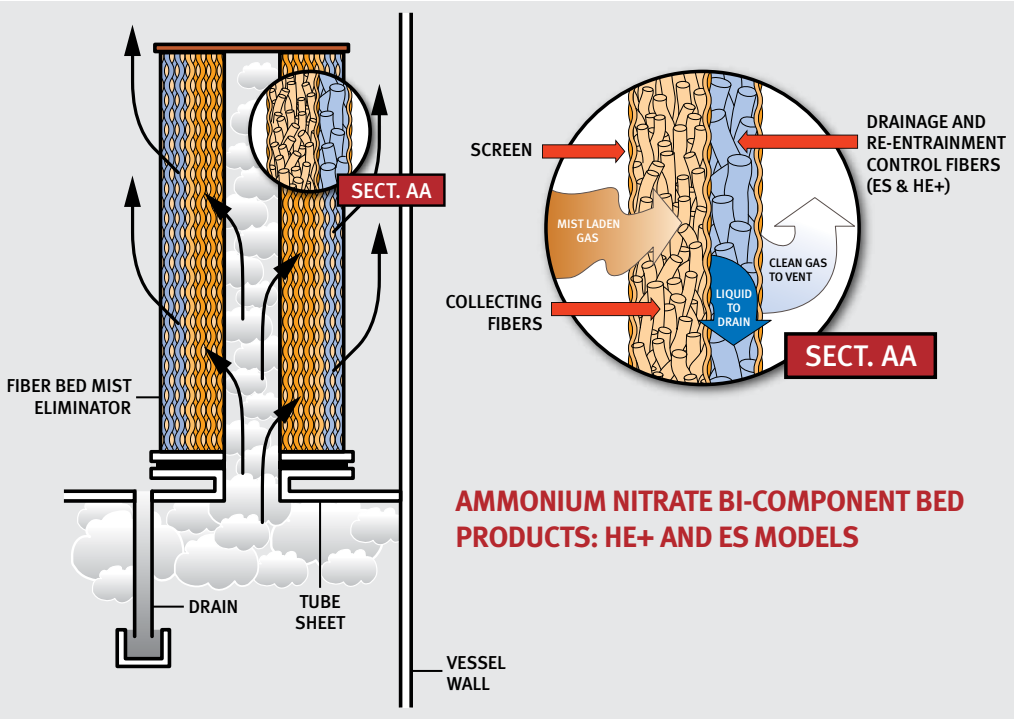
**MECS®**  
**BRINK®**

Learn more at [www.mecsglobal.com](http://www.mecsglobal.com)

# BRINK® AN FIBER BEDS: MIST ELIMINATORS FOR AMMONIUM NITRATE PRILL TOWERS

## HOW THE BRINK® AN FIBER BEDS WORK

The Brink® HE+ and ES designs include an engineered layer of coarse fibers downstream of the finer collecting fibers. This design combination eliminates spitting or re-entrainment and results in the highest efficiency and cleanest stacks in the Ammonium Nitrate industry.



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## AMMONIUM NITRATE MIST COLLECTION AND COALESCENCE

