



Application

AVA in FIRE RETARDANTS

AVA offers advanced technology for your individual application like the production of:

- Brominated and chlorinated compounds
- Melamine and phosphate mixtures
- Ammonium, antimony and boron compounds
- Other anorganic flame retardants



AVA Reactor HTC-VT 10000

AVA. Reactors

- Almost complete reacting resp. cross-linking of raw materials
- Reaction temperatures up to 900°C / 1652°F are possible
- Vertical + horizontal designs available - fit into your building
- Batch sizes from 1 liter up to 50,000 liters are possible
- Reacting, drying and mixing within one machine
- *Exemplary application:* Cross-linking of melamine and phosphoric acid to melamine (poly)phosphate

AVA. Dryers

- Final moisture < 0.1wt%
- Drying temperatures up to 800°C / 1472°F
- Operation under pressure / vacuum < 25 mbar / 0.36 psi absolute
- *Exemplary application:*
Drying of: Red phosphorum
Amonium (poly)phosphates
Melamine (poly)phosphates



AVA HWV-VT 2500

AVA. Mixers

- Turbulent mixing for fast homogenization
- Perfect dispersion of liquid additives
- Short mixing times
- *Exemplary application:*
Coating of FR with silane to improve the surface quality (lower water impact)



AVA HTK 1300

AVA. Laboratory Series

- Batch volume from 0.3 to 24 Liters
- One base unit for five tank volumes: 3, 5, 10, 20, 30 Liters
- Compact encapsulated housing unit with drive, touch panel and switching devices
- Drum rotatable by 180° for emptying
- Easy handling
- Plug and Play Unit



AVA HTL 10

AVA. Advantages

- Superior quality of reacting, drying and mixing with constant reproducibility
- High reliability and low downtime of machines
- Low life-cycle costs

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AVA process technology

Mixing
Drying
Reacting
Granulating

Sterilizing
Evaporating
Humidifying
Homogenizing

100%

Designed &

Made in Germany

