

CinChemPro, LLC

Powder Processing & Technology

CinChemPro is a custom processor of industrial organic chemical powders, able to handle explosive dusts and temperature sensible materials.

Toll manufacturing services include

- ✓ Spray Drying
- ✓ Dry Blending
- ✓ Crushing and Grinding
- ✓ Screening and Repackaging

Capable of process development scale quantities through production level activities. Spray drying services can handle tanker and tote deliveries. Repackaging from and into bulk bags, totes, 25-kilogram bags, and drums.

Examples of industries served

- ✓ Microbiology technology
- ✓ Sustainable chemistry
- ✓ Bio-Diesel applications
- ✓ Energy-storage applications
- ✓ Environmentally friendly pest control solutions
- ✓ Additives for Aqua
- ✓ Agricultural applications
- ✓ Polymer additives
- ✓ Emulsifiers
- ✓ Oil and gas

Note: we presently don't handle food, pharma or solvent-based products

Contact

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Customer Service

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Location

CinChemPro, LLC

458 West Main Street
Batavia, OH 45103 (5 miles Eastgate **Cincinnati**)

Additional technical, commercial and administrative support provided by its parent company:

Powder Processing & Technology, LLC

5103 Evans Avenue
Valparaiso, IN 46383 (**Chicago** Metropolitan Area)

Spray drying, calcination, kiln firing, blending of ceramics, inorganic chemicals, catalysts, abrasives

Features

Temperature sensible materials, combustible dust (K_{st}), scale up, re-dispersible and non-re-dispersible powders, anti-caking system for sticky materials, unit operations or integrated processes, multiple truckers and tankers logistics, supersacks, bags, drums and pails.

Equipment List

Spray Dryers

- ✓ Final materials can be packaged in valve pack bags, mini bulk bags or drums

2.5 ft Niro (Lab / Pilot) Spray Dryer

- ✓ Stainless steel; Electric heat; Cyclone; Wheel atomization with top speed of 14,000 rpm.
- ✓ Maximum inlet temperature of 425°F (220°C); Maximum outlet temperature of 200°F (90°C)
- ✓ Evaporation rate at a 460 $\Delta T^{\circ}F$ is 15lbs H₂O/hour = approximately ½ oz H₂O/hour/degree $\Delta T^{\circ}F$

10 ft Niro Spray Dryer

- ✓ Stainless steel with 60° cone; Direct fired on natural gas; 1,000 and 3,000-gallon feed tanks
- ✓ Cyclone plus Mikro-pulsaire dust collector containing 45 filter bags 8 ft long
- ✓ Maximum inlet temperature of 750°F (400°C); Maximum outlet temperature of 250°F (120°C)
- ✓ Evaporation rate of 1lb of water/hour per $\Delta T^{\circ}F$; Wheel atomization with top speed of 15,000 rpm

16 ft Bowen Spray Dryer

- ✓ Stainless steel with 60° cone; Direct fired on natural gas; Two 6,000 and a 10,000-gallon feed tanks
- ✓ Single point collection system that utilizes two cyclone collectors followed by a wet scrubber
- ✓ Maximum inlet temperature of 600°F; Maximum outlet temperature of 300°F
- ✓ Evaporation rate of 10lb of water/hour per $\Delta T^{\circ}F$; Wheel atomization top speed of 18,000 rpm

Dry Blending

Our equipment consists of a mild steel ribbon blender, with spraying capability for oil incorporation, which will accommodate up to 6,000lb batches, then packaging to your specifications. A pre-blending or post-blending operation can be set up in series with grinding or spray drying, according to your needs.

Crushing & Grinding

CinChemPro has the capacity for processing a wide variety of friable materials in hammer mills, reducing materials from large chunks to products of less than 100 microns. Our crushing and grinding operations include blenders, dust collectors, and packaging equipment.

- ✓ 1 Jacobs Prebreaker 15 hp; 1 Integrated Vibrating Screen; 4 Valve Pack Baggers + 1 Stainless steel
- ✓ 2 #2 Mikro Pulverizers with stirrup hammer mill 25 hp with feed screws and air pick up hopper
- ✓ 1 #1 Mikro Pulverizer with stirrup hammer mill 5 hp with feed screws-test mill

A Rotap Screen is used off-line for verification of particle sizes.

Screening & Repackaging

CinChemPro offers custom repackaging for single occasion or ongoing projects.

We accept material in bulk bags, steel or fiber drums and 25lb or 50lb bags.

Repackaging options include bulk bags, steel or fiber drums, Gaylord boxes and 25lb or 50lb bags.

Laboratory

Solids, viscosity, particle size distribution and apparent bulk density

We appreciate your business. Please contact us for more information at: (513) 732-2464

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www.cinchempro.com