

## SDS Spray Dryer Projects

---

349	Alumina oxide spray dryer system for 100 micron product. Pressure nozzle atomization, 11 foot diameter, 16 foot straight side, with chamber, cyclone, and bag filter recovery.
348	Model 48 spray drying system for 30 micron catalyst product. 4 foot diameter, 6 foot straight side, mixed and co-current flow, pressure nozzle atomization, with bag filter recovery.
347	Model 48 spray drying system for 100 micron ceramics product. 4 foot diameter, 8 foot straight side, mixed flow, pressure nozzle atomization, with chamber, cyclone, and bag filter recovery.
346	FCC catalyst spray dryer system for 70 micron product. Pressure nozzle atomization, 12 foot diameter, 18 foot straight side, with bag filter recovery.
345	Precipitated silica spray drying system for 30 and 300 micron product. Pressure nozzle atomization, 20 foot diameter, 50 foot straight side, with bag filter recovery.
344	Model 48 spray drying system for 100 micron ceramics product. 4 foot diameter, 8 foot straight side, mixed flow, pressure nozzle atomization, with chamber, cyclone, and bag filter recovery.
343	Aluminum chlorohydrate spray drying system for 60 micron product. 12 foot diameter, 20 foot straight side, two-fluid nozzle atomization, with cyclone product recovery and venturi scrubber particulate emission control.
341	Model 48 spray drying system for 30 micron boehmite alumina. 4 foot diameter, 6 foot straight side, co-current flow, pressure nozzle atomization, with cyclone and bag filter recovery.
339	Two (2) Model 48 spray drying systems for 125 micron ceramics product. 4 foot diameter, 8 foot straight side, mixed flow, pressure nozzle atomization, with chamber, cyclone, and bag filter recovery.
338	Model 48 spray drying system for 60 micron kaolin clay based catalyst. 4 foot diameter, 8 foot straight side, co-current flow, pressure nozzle atomization, with cyclone and bag filter recovery.
335	Model 48 spray drying system for 30-80 micron zinc oxide ceramics product. 4 foot diameter, 6 foot straight side, mixed flow, pressure nozzle atomization, with cyclone and bag filter recovery.
334	Model 48 spray drying system for 75-125 micron ceramics product. 4 foot diameter, 6 foot straight side, mixed flow, pressure nozzle atomization, with chamber, cyclone, and bag filter recovery.
330	Model 48/72 hybrid spray drying system for ammonium nitrate product. 6 foot diameter, 6 foot straight side, mixed flow and co-current flow, two-fluid and pressure nozzle atomization, with chamber bottom and cyclone recovery.
326	Metal oxides spray drying system for 40 micron product, 9 foot diameter, 15 foot straight side, mixed flow configuration, pressure nozzle atomization, with bag filter recovery.
324	Alumina ceramics spray drying system for 125 micron product, 9 foot diameter, 15 foot straight side, mixed flow configuration, pressure nozzle atomization, with chamber, cyclone, and bag filter recovery.
323	Two (2) spray dryers for waste calcium and magnesium chloride salts, 12 foot diameter, 24 foot straight side, co-current flow, two-fluid nozzle atomization, with bag filter recovery.
318	Custom closed loop Model 48 spray dryer system for ceramics in organic solvent, 70 micron product, 4' diameter, 6' straight side, pressure nozzle atomization, with chamber, cyclone, and bag filter recovery.
308	Model 48 spray drying system for 40 micron ceramics product. 4 foot diameter, 6 foot straight side, mixed flow, pressure nozzle atomization, with cyclone and bag filter recovery.

---

## SDS Spray Dryer Projects

299	Silica and alumina silicates spray drying system for 70 micron product. 30 foot diameter, 16 foot straight side, co-current flow, rotary atomization, with chamber and bag filter recovery.
298	Two (2) Model 30 spray dryers with cyclone and bag filter recovery for a 30 micron ceramics product.
295	Silica and alumina silicates spray drying system for 140 micron product. 20 foot diameter, 24 foot straight side, mixed flow, pressure nozzle atomization, with chamber and bag filter recovery.
293	Custom closed loop Model 48 spray dryer system for metals in organic solvent, 150 micron product, 4' diameter, 8' straight side, two fluid nozzle atomization, bag filter recovery.
288	Ceramics spray drying system for 90 micron product. 8 foot diameter, 16 foot straight side, mixed flow, pressure nozzle atomization, with chamber and bag filter recovery.
287	Specialty catalyst spray drying system. 14 foot diameter, 20 foot straight side, rotary atomization, with cyclone and bag filter recovery.
280	FCC catalyst spray drying system for 75 micron product. Pressure nozzle atomization, 21' diameter, partial gas recycle, cyclone collection, venturi scrubber, and HCl absorber for emission control.
278	Model 72 spray drying system for 100 micron iron oxide product. 6 foot diameter, 12 foot straight side, pressure nozzle atomization, with cyclone and bag filter recovery.
276	Aluminum chlorohydrate spray drying system for 60 micron product. 12 foot diameter, 20 foot straight side, two-fluid nozzle atomization, with cyclone product recovery and venturi scrubber particulate emission control.
274	Synthetic zeolite spray drying system. 12 foot diameter, 26 foot straight side, pressure nozzle atomization, with bag filter recovery, and ammonia absorption.
268	Acetaminophen/starch spray drying system for 150 micron product. 12 foot diameter, 22 foot straight side, pressure nozzle atomization, with cyclone and bag filter recovery.
270	Iron oxide spray drying system for 100 micron product. 7 foot diameter, 24 foot straight side, pressure nozzle atomization, with cyclone and bag filter recovery.
269	FCC catalyst spray drying system for 75 micron product. Pressure nozzle atomization, 32 foot diameter, 40 foot straight side, partial gas recycle, cyclone collection with venturi scrubber, HCL absorber for emission control.
267	Synthetic zeolite spray drying system. 12 foot diameter, 22 foot straight side, pressure nozzle atomization, with bag filter recovery.
264	Model 72 spray drying system for 100 micron ceramics product. 6 foot diameter, 14 foot straight side, mixed flow, pressure nozzle atomization, with chamber, cyclone and bag filter recovery.
261	Polymer spray drying system for 60 micron product. Closed loop system for methylene chloride and acetone solvents, two-fluid atomization, 3.5 foot diameter, 5 foot straight side, with cyclone recovery.
258	Pilot spray calciner system for oxidizing metal acetates.
255	Spray chilling system for zinc stearate and stearic acid. 30 and 250 micron particle sizes. 7 foot diameter, 45 foot straight side, pressure nozzle atomization, with bag filter product recovery. Closed loop nitrogen system.

## SDS Spray Dryer Projects

253	Food flavoring spray dryer for 80 micron product. 8 foot diameter, 28 foot straight side, pressure nozzle atomization, with cyclone product recovery, wet scrubber particulate emission control.
248	Precipitated silica spray drying system for 30 and 300 micron product. 20 foot diameter, 50 foot straight side, pressure nozzle atomization, with bag filter recovery.
247	Four spray coolers for cooling process gas. 12 foot diameter, 20 foot straight side, two fluid nozzle atomization.
243	FCC catalyst spray drying system for 75 micron product. Pressure nozzle atomization, 19' diameter, partial gas recycle, cyclone collection and absorber for emission control.
240	Model 72 spray drying system for 125 micron ceramics product. 6 foot diameter, 14 foot straight side, mixed flow, two-fluid and pressure nozzle atomization, with chamber, cyclone, and bag filter recovery.
238	Aluminum chlorohydrate spray drying system for 100 micron product. 10 foot diameter, 20 foot straight side, two-fluid nozzle atomization, with cyclone product recovery and venturi scrubber particulate emission control.
235	Precipitated silica pilot spray drying system for 300 micron product. Pressure nozzle atomization, 4 foot diameter, 38 foot straight side, with chamber bottom and bag filter recovery.
234	Brine salts spray drying system for 40 micron product. 2.5 foot diameter, 6 foot straight side, co-current/mixed flow, two-fluid nozzle atomization, bag filter recovery.
230	Polyvinyl pyrrolidone spray drying system for 75 micron product. 8 foot diameter, 35 foot straight side, co-current/mixed flow, pressure nozzle atomization, bag filter recovery with cooling conveyor.
228	Detergent spray drying system for 400 micron product. 20 foot diameter, 55 foot straight side, co-current, pressure nozzle atomization, bag filter recovery.
221	Sodium tetrasulfide pilot spray drying system. 3 foot diameter, 8 foot straight side, two-fluid nozzle atomization with cyclone and wet scrubber recovery.
219	Polymer spray drying system for 30 micron product. Closed loop system for methylene chloride and acetone solvents, two-fluid atomization, 2 foot diameter, 4 foot straight side, with cyclone recovery.
216	Food flavoring spray drying system for 80 micron product. 6 foot diameter, 18 foot straight side, pressure nozzle atomization, with cyclone product recovery, wet scrubber particulate emission control.
217	Food flavoring spray drying system for 80 micron product. 8 foot diameter, 20 foot straight side, pressure nozzle atomization, with cyclone product recovery, wet scrubber particulate emission control.
212	Spray dryer for incineration plant. 14 foot diameter, 30 foot straight side, two-fluid nozzle atomization of lime slurry for SO <sub>2</sub> and HCl removal.
200	FCC additives spray drying system for 75 micron product. 14 foot diameter, 40 foot straight side, pressure nozzle atomization.
146	Aluminum chlorohydrate spray drying system for 33 micron product. 14 foot diameter, 20 foot straight side, pressure nozzle or rotary atomization, with cyclone product recovery and venturi scrubber for emission control.
143	Feldspar spray drying system for 300 micron product. 18 foot diameter, 24 foot straight side, mixed flow, pressure nozzle atomization, bag filter recovery. Turn key.

## SDS Spray Dryer Projects

142	Spray cooler for cooling gas from reactor vent gas. 5 foot diameter, 8 foot straight side, pressure nozzle atomization, 100 psig, 2500 F. With bag filter collection, spray saturator and HCl absorber/condenser.
141	Model 72 spray drying system for 75 micron ceramics product. 6 foot diameter, 14 foot straight side, mixed flow, pressure nozzle atomization, cyclone and bag filter recovery.
139	Spray cooler for cooling gas from furnaces. 20 foot diameter, 20 foot straight side, two fluid nozzle atomization.
140	Detergent spray drying system for 400 micron product. 6 foot diameter, 40 foot straight side, counter-current and co-current capability, pressure nozzle atomization, bag filter recovery.
137	Two spray coolers for cooling process gas. 12 foot diameter, 20 foot straight side, two fluid nozzle atomization.
131	Bentonite clay spray drying system for 30 micron product. 12 foot diameter, 24 foot straight side, two-fluid atomization, bag filter recovery.
126	Humate spray drying system for 60 micron product. 4 foot diameter, 20 foot straight side, two-fluid nozzle atomization, with cyclone recovery.
124	Nickel and aluminum chloride spray drying system for 75 micron product. Closed loop system, pressure nozzle atomization, 10 foot diameter, 16 foot straight side, with baghouse recovery, HCl recovery, and water condenser.
122	Bentonite clay spray drying system for 30 micron product. Two-fluid or pressure nozzle atomization, 4 foot diameter, 30 foot straight side, with bag filter recovery.
121	Salt brine spray drying system for 100 micron product. Two-fluid atomization. 3 foot diameter, 10 foot straight side, with cyclone recovery and condenser/absorber.
118	Polymer spray drying system for 30 micron product. Closed loop system for methylene chloride and acetone solvents, two-fluid atomization, 2 foot diameter, 4 foot straight side, with cyclone recovery.
117	Ceramics spray drying system for 250 micron product. Pressure nozzle atomization, 4 foot diameter, 35 foot straight side, with bag filter recovery.
116	Alumina spray drying system for 60 micron product. Rotary atomization, 23 foot diameter, 14 foot straight side, with bag filter recovery.
104	Silica pilot spray dryer for 30 micron product. 30" diameter, 9' straight side, two-fluid nozzle atomization, with cyclone recovery.
86	Precipitated silica spray drying system for 30 and 300 micron product. 27 foot diameter, 50 foot straight side, pressure nozzle atomization, with bag filter recovery.
79	Precipitated silica spray drying system for 30 and 300 micron product. Pressure nozzle atomization, 20 foot diameter, 50 foot straight side, with bag filter recovery.
74	Titanium dioxide pilot spray drying system. 3 foot diameter, 6 foot straight side, two-fluid atomization with bag filter recovery.
57	Synthetic zeolite spray drying system for 70 micron product. Pressure nozzle atomization, 14 foot diameter, with bag filter product recovery and ammonia absorber for emission control.

## SDS Spray Dryer Projects

---

- |    |   |
|----|---|
| 56 | FCC catalyst spray drying system for 75 micron product. Pressure nozzle atomization, 40' diameter, partial gas recycle, cyclone collection and venturi scrubber for emission control, packed bed for energy recovery. |
| 51 | FCC catalyst pilot spray dryer for 75 micron product. 5 foot diameter, 12 foot straight side, pressure nozzle atomization.  |
| 49 | Gas cooler spray dryer for hazardous waste incinerator. 2000 to 400 deg F, 14 foot diameter   |
| 48 | Precipitated silica spray drying system for 30 and 300 micron product. Pressure nozzle atomization, 20 foot diameter, 45 straight side, with bag filter product recovery.   |
| 41 | Polymer spray drying system for 20 micron product. 5 foot diameter, 10 foot straight side, closed loop, silicon gas medium, 150 psig, 2-fluid nozzle atomization.   |
| 40 | Synthetic zeolite spray drying system for 70 micron product. 14 foot diameter, pressure nozzle atomization, with bag filter product recovery and ammonia absorber for emission control.                               |
| 37 | Two (2) spray dryers for hazardous waste incineration plant. 23 foot diameter, two-fluid nozzle atomization of lime slurry for SO2 removal. Simultaneous salt drying from venturi scrubber effluent.                  |
| 6  | FCC catalyst spray drying system. 20 foot diameter, pressure nozzle atomization, with cyclone recovery and venturi scrubber emission control.   |
| 1  | FCC catalyst spray drying system for 75 micron product. 40 foot diameter, 40 foot straight side, rotary atomization, with cyclone product recovery and venturi scrubber particulate emission control.                 |
-