



# Ascent Chemicals™

Manufacturing  
Locations

Danville, VA  
Fountain Inn, SC  
Cleveland, TN

HQ

Schaumburg, IL

[AscentChem.com](http://AscentChem.com)



## Booth 1017

We deliver *tailored* specialty-chemistry solutions at scale across an array of high-value segments



HI&I



Agriculture



Personal Care

Life  
Sciences

Performance  
Materials

Where We Participate



Pulp & Paper



CASE



Oil & Gas



Textiles



Water  
Treatment



# Integrated Manufacturing Capabilities

Purposeful redundancy in core reactions and capabilities to enable customer growth and enhance reliability initiatives; consistent quality management practices throughout

Manufacturing Locations  
Danville, VA  
Fountain Inn, SC  
Cleveland, TN

## OPERATING ENVELOPE

**315 °C / 600 °F**  
HIGH-TEMP REACTIONS

**0.5 psia to 156 psig**  
VACUUM & PRESSURE

**DCS / PLC-controlled Equipment**  
STEAM; TEMPERED GLYCOL / WATER

**Class 1, Div 2**  
FLAMMABLE LIQUIDS

**Powders**  
COMBUSTIBLE / FLAMMABLE

**500,000+ cP**  
VISCOSITIES

## CORE CHEMISTRIES

Amination

Amidation

Catalysis

Condensation

Esterification

Etherification

Hydrolysis

Neutralization

Oxidation

Phosphation

Polymerization

Quaternization

Reduction

Saponification

Sulfation

Transesterification

## INTEGRATED UNIT OPERATIONS

Drying

Flaking

Filtration

Centrifugation

Sifting / Screening

Crystallization

Encapsulation

Bulk Storage

Wet Milling

Dry Milling

Dispersions

Homogenization

Emulsification

Dry Blending

Liquid Blending

Bead Impregnation

## CLEVELAND, TN

### Vertical Reactors (Gal.)

- 7,500
- 6,000
- 4,000
- 3,000
- 2,700
- 600
- 30
- 5

### Mix Tanks (Gal.)

- 8,550 - 2 Vessels
- 6,500 - 5 Vessels
- 6,000 - 5 Vessels
- 3,000
- 2,850
- 1,500 - 5 Vessels
- 1,400
- 700
- 50

### Other Equipment

- Melt Tanks
- Homogenizers
- Horizontal Mills

## DANVILLE, VA

### Horizontal Reactor-Dryers (L)

- 15,000
- 10,000
- 7,000
- 4,200
- 1,200
- 130

### Vertical Reactors (Gal.)

- 4,000 - 3 Vessels
- 3,000 - 2 Vessels
- 2,500 - 2 Vessels
- 2,000
- 200

### Other Equipment

- Air Classifying Mill
- Attritor Ball Mill
- SWACO Sifting Unit
- Centrifuges 36" & 48"

## FOUNTAIN INN, SC

### Vertical Reactors (Gal.)

- 8,200 - 2 Vessels
- 3,000 - 2 Vessels

### Mix Tanks (Gal.)

- 8,000 - 4 Vessels
- 5,000 - 9 Vessels
- 3,000 - 6 Vessels
- 1,500 - 18 Vessels

### Other Equipment

- Vertical Mills - 20 Units
- High-speed Dispersers - 6 Units

» PSM-covered Processes

» EPA / FIFRA Establishments

» 2025 SOCMA Safety Recognition Award Recipient

# Site Equipment & Compliance



# Extensive Capabilities to Support Development, Production, and Quality

- HPLC (UV or RI Detectors)
- GC (Direct Injection and Headspace, ID and TCD Detection)
- Atomic Absorption Spectrometer
- UV/Vis Spectrophotometer
- FTIR Spectrometer
- Auto titrators (Colorimetric, Potentiometric, Redox)
- Karl Fischer (Volumetric and Coulometric, Coulometric Headspace)
- Automated Flashpoint
- Brookfield Viscometers (LV, RV, HAHB)
- Muffle Furnace (to 1,000 °C)
- Vacuum Ovens
- Moisture Analysis (Microwave & Halogen Lamp)
- Colorimeters (Solids & Liquids, Various Color Scales)
- Melt Point
- Sieve Analysis
- GPC (UV or RI Detectors)
- Density (Fluids, Solids, Tapped)
- pH Meters
- TGA
- Ion Chromatography
- Turbidity
- Refractive Index, Gardner Color, Melt Flow, DSC, AA and more



# Chemicals -as-a-Service

Integrated Capabilities and Agile Business Models for *Superior Customer Outcomes* backed by *75 Years of Chemical Manufacturing Expertise*

	SOLUTIONS								BUSINESS MODEL			
	Primary Development	Formulation Customization	Scale-Up	Reaction & Drying	Blending, Milling & Dispersing	Warehousing	Logistics	Regulatory	Products	Toll Manufacturing	Custom Manufacturing	Buy, Build & Operate
ASCENT (CaaS Model)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Chemical Manufacturers	✓	✓	✓	✓				✓	✓			
Toll Manufactures			✓	✓	✓					✓		
Custom Manufacturers		✓	✓	✓	✓			✓			✓	
Distributors					✓	✓	✓	✓	✓			

## What We Do

Execute a customer-centric chemical supply chain model that fuses development, scale-up, manufacturing (small batch & continuous), compliance and distribution into a unified offering

## How We Win

We connect with customers the way they want; when, where, and how they choose. We win across the Moments that Matter [Development, Contracting, Manufacturing & Fulfillment and Service]

# Collaborative Development Process

We connect with customers the way they want; when, where, and how they choose.

## CUSTOMER REQUIREMENTS

Cross-functional intake discussion to translate customer needs to a clear scope & deliverables



## TECHNOLOGY TRANSFER

Decades of experience safely transferring technology from development to commercialization



## GROWTH-ORIENTED OPERATIONS

Integrate into existing asset base, or engineer purpose-built solutions; access to growth capital



## RESOURCE ALLOCATION

Dedicated project management throughout project lifecycle including project management, sales, engineering and operations

## PILOT SCALE PRODUCTION

Dedicated pilot plant with three pilot processing bays, laboratory and customer accommodation center

## CONTINUOUS IMPROVEMENT

Culture focused on continuous improvement in products and processes

# Commercializing Demanding Technology

## High-Purity Polyimide

### THE CHALLENGE

An emerging tech company developed a novel high-purity polyimide requiring 100+ MT annually, but had no proven pathway to scale beyond laboratory production.

### MAIN EQUIPMENT USED

#### 2,000 Gal Reactor

POLYMERIZATION

#### 3,000 Gal Reactor

PRECIPITATION

#### 6m<sup>2</sup> Rosenmund Filter / Dryer

POLYMER ISOLATION

#### 7,000 Littleford Horizontal Reactor

POLYMER DRYING

### WE DELIVERED

- » **COMMERCIALIZATION ROADMAP DEVELOPMENT**  
Partnered with the customer to define CTQs and engineer a structured pathway from lab-scale proof of concept to full commercial production.
- » **SCALABLE PROCESS ENGINEERING**  
Translated bench-scale chemistry into a robust, reproducible process capable of high-purity performance at commercial volumes.
- » **INTEGRATED REGULATORY & SAFETY COMPLIANCE**  
Executed testing and regulatory filings for PSM/RMP-covered processes and combustible dust management.
- » **TARGETED CAPITAL DEPLOYMENT**  
Procured, installed, and commissioned a 6m<sup>2</sup> filter/dryer within three months to support polymer isolation and drying.
- » **END-TO-END SUPPLY CHAIN INTEGRATION**  
Established sourcing, solvent management, and hazardous waste handling to enable reliable commercial operation.

### RESULTS

Robust process demonstrated at commercial scale, high-capacity infrastructure in place, efficient supply chain

# Accelerated Multi-Site Technology Transfer

## Complex Portfolio Transition Under Supply Risk

### THE CHALLENGE

A global leader lost reliable manufacturing across 10+ heritage products with incomplete technical documentation and minimal transition pathways, creating immediate business risk.

### MAIN EQUIPMENT USED

**Multiple 4,000 Gal Reactors**  
REACTIONS & POLYMERIZATIONS

**Overheads w/ Receivers**  
DISTILLATION

**Multiple Heated Storage Tanks**  
STORAGE

### WE DELIVERED

- » **RAPID CROSS-FUNCTION MOBILIZATION**  
Aligned R&D, Engineering, Operations, and Commercial teams immediately to stabilize supply under compressed timelines.
- » **FORMULATION RECONSTRUCTION & VALIDATION:**  
Rebuilt technical documentation, developed parallel formulation pathways, and executed accelerated lab and end-user testing.
- » **CONCURRENT MULTI-SITE SCALE-UP:**  
Executed parallel trial campaigns across VA and SC, advancing structured batch validation and SOP development to accelerate commercialization.
- » **EXECUTION DISCIPLINE & SUPPLY RELIABILITY:**  
Achieved 100% OTIF performance while shortening lead times and restoring predictable supply to end users.

### RESULTS

In just four months, rapidly stabilized a disrupted multi-product portfolio, restoring supply continuity, shortening lead times, and establishing a long-term strategic manufacturing partnership.

# Customer-Dedicated Manufacturing Platform

## Biocompatible Polymer

### THE CHALLENGE

A global personal care manufacturer sought a purpose-built facility with integrated reactor, recovery, drying, and solids-handling capabilities required to commercialize a 120+ MT biocompatible polymer.

### MAIN EQUIPMENT USED

**3,000 Gal Reactor**  
POLYMERIZATION

**2-Stage Compressor**  
VAPOR RECOVERY

**3,000 Gal Reactor**  
DISTILLATION

**3,000 Gal Reactor**  
SOLVENT RECOVERY

**Dual 12" Horiz. Dryers**  
SLURRY DRYING

**Vibratory Screens**  
PARTICLE SIZING

### WE DELIVERED

- » **DEDICATED MANUFACTURING PLATFORM**  
Engineered and commissioned a customer-dedicated, PSM-covered production area to enable full commercialization.
- » **PROCESS TRANSLATION & OPTIMIZATION:**  
Adapted process to equipment and have collaborated continuously with customer on process optimization
- » **FLEXIBLE ASSETS**  
Operate and maintain a complex array of assets for polymerization, recovery, drying, particle size control, and packaging.
- » **MATERIAL HANDLING EXPERTISE**  
Safely managed flammable solvents, volatile intermediates, and hygroscopic, combustible powder under controlled conditions.
- » **OPERATIONAL EXCELLENCE**  
Achieved consistent in-spec production while improving yield and raw material efficiency.

### RESULTS

Converted a manufacturing challenge into a fully commercialized production platform establishing a long-term strategic manufacturing partnership.

# Why Leading Chemical Companies Choose Ascent Chemicals™

## *CHEMICALS-AS-A-SERVICE*

Development, scale-up, production, warehousing, logistics — fully integrated

## *BUILT FOR COMPLEX CHEMISTRY*

PSM-covered processes. Hazardous Materials.  
Multi-step manufacturing. DCS controlled equipment.

## *WE ACCELERATE THE PATH TO COMMERCIALIZATION*

Integrated teams. Parallel Execution. Safety Focused.

## *WE INVEST ALONGSIDE OUR CUSTOMERS*

Scalable U.S. manufacturing footprint. Access to Capital. Long-term alignment.

## *SECURITY OF SUPPLY*

Multi-site redundancy. Complementary capabilities.

Supported by *75 years of Chemical Manufacturing Expertise*

**Chemicals  
-as-a-Service**



# Ascent Chemicals™



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Director of Strategic Marketing

**Daniel Sanchez**  
Head of Site Strategy & Growth - TN & SC

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Sr. Business Development Manager

Let's continue the conversation at **Booth 1017**

Make sure to drop your business card and follow us on LinkedIn for a chance to win a YETI Tundra 65!

