



# MONUMENT CHEMICAL Custom Manufacturing Showcase

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Every day, our customers bring us



# Their toughest chemistry challenges.



## Monument is the go-to, leading chemical industry partner for...

- Challenging distillations, high purity fractionations, large-scale esterification, hydrolysis, batch and continuous hydrogenation, and amination
- Flexible scale-ups of ethylene oxide and propylene oxide derivatives
- Cutting-edge solutions for new and challenging chemistries – while operating at industry-leading HSE performance record



## Monument At A Glance

### American, family-owned company

- Headquartered in Indianapolis
- 650 employees in the US (800 globally)
- Highly **focused on HSE**
- Demonstrated **expertise and scale**
  - ✓ Distillation and fractionation
  - ✓ Challenging chemistries
  - ✓ **SAF and Biodiesel**



**>\$250MM**  
Invest for Growth



**1.5+ Billion**  
Lb per year output globally



Part of:



Related Ownership:



Challenging Chemistries / Broad Applications

**Chemicals, Fuels, Electronics, Personal Care,  
Pharma, Defense, Additives, Coatings, and More**



## Our Locations

We operate in the heart of the manufacturing hubs of the U.S. and Europe.



### **Houston, Bayport, and Baytown, TX**

Conveniently located on the Houston ship channel, our Texas facilities are close to our customers — and close to their customers.



### **Port Arthur, TX**

Located on the Sabine River intercoastal waterway - just two miles from the Gulf of Mexico – an ideal location between manufacturing hubs in TX and LA



### **Brandenburg, KY**

Located just outside of Louisville, our Brandenburg facility offers one-day truck service to most U.S. customers



### **Antwerp, Belgium**

Located in the heart of the Rotterdam/Antwerp petrochemical center, our Antwerp facility is easily accessible to our customers and their customers.



## Our Businesses

### Monument Solvents

Monument Solvents is a leading global provider of organic solvents, intermediates and specialty custom manufacturing services.

**Locations: Houston TX, Pasadena TX**

### Monument Oxides

Monument Oxides is a leading global provider of polyether polyols, alkoxyated surfactants, amine chemistries, glycols, glycol ethers and specialty custom manufacturing services.

**Locations: Brandenburg KY**

### Renewables & Fuels

Monument Renewables & Fuels serves as a key partner in the transformative shift towards renewables and fuels – and offers a wide range of specialty fluids products and custom manufacturing services

**Locations: Port Author TX, Baytown TX**

### Monument Europe

Monument Europe provides custom manufacturing services for several of the world's largest producers of fine and specialty chemicals – and supplies high purity oxygenated solvents into various industries

**Locations: Antwerp Belgium**

## HOUSTON



### Large distillation and fixed bed reactors:

- Continuous and reactive distillation
- Hydrogenation
- Hydrolysis, isomerization, esters, ethers and many more!

## BAYPORT



### Specialty distillation, hydrogenation, amine chemistries:

- Continuous and batch distillation
- High pressure capabilities (800 psi)
- Cyanoethylation, reductive amination and alkylation, **hydroformylation**

## BAYTOWN



### Blending and terminal facility

- 20,000-250,000 gal tanks

### Modes of Delivery:



**Leader in complex separations, reactive distillation, solvent recycling, and hazardous secondary materials (HSM) processing**

- Largest distillation capacity of any custom manufacturer
- Continuous and batch capabilities
- Majority stainless steel
- 2'-8' (0.6-2.5 m) diameter
- Steam or hot oil heated up to 550 °F (290 °C)
- Theoretical stages ranging from 25-100
- Rated for full vacuum to 100 psi (~7 bar)



**We can supply the product you need — where and when you need it.**



## Multi-purpose fixed bed and batch reactors

- Up to 800 psi (55 bar), high pressure steam and hot oil heating
- Continuous (trans)esterification, hydrolysis, isomerization & hydrogenation
- Experienced in specialty amines production, including handling of acrylonitrile, ammonia, and other RMP raw materials
- Alkylation and reductive alkylation
- Aldol, hydroformylation, aromatics refining and many more



**Interested in a  
different capability?  
We can help!**

## Largest, most flexible site for EO/PO chemistry in the Midwest and Eastern US

- Alkoxylates/surfactants, polyether polyol, glycols, glycol ethers, amination, and specialty chemicals
- On-site pilot plant and customer applications testing lab
- Auxiliary equipment including filtration, dryers, centrifuge, benchtop batch distillation, wipe film evaporator, and more!

### Modes of Delivery:





## Alkoxylation (EO/PO)

- 20 reactors (2,000-25,700 gal. capacity)
- Catalyst removal capabilities

## Aminated Polyol Production

- Reductive amination of -OH groups of polyether polyols
- 2 reactors (2,600-2,900 gal.), up to 600 psi. (40 bar) and 750 °F (400 °C), capable of high MW products

## Pilot Plant

- Glass-lined and stainless-steel multipurpose reactors from 10 to 850 gal.
- Vast know-how on PO/EO chemistry process development and scale up
- Thioacid chemistry (advanced lubricants)

## Glycols & Glycol Ethers (PO and EO)

- 3 Flexible Glycol Ether Trains
- Propylene Glycol production

## Custom Electronic Materials Manufacturing

- Glass lined and stainless-steel batch reactors
- Centrifuge filtration; ability to handle a wide range of chemistries including formaldehyde, phenol and xylene

### Unrivaled distillation capacity and multipurpose reactors

- Continuous & batch distillation
- Multipurpose reactors:
- SAF, esters, ethers, alkylation, hydrolysis, acetylation, dehydration, and more!
- >100 tanks, 585 bbl of storage

### Modes of Delivery:



# Our Commitments



## QUALITY

- Onsite and 24/7 Lab capabilities
- ISO 9001, Kosher, Halal, cGMP
- First Pass Quality (FPQ) focus
- World-class R&D for simulation science and rapid scale-up



## ENVIRONMENT

- 100% compliance in all operating and environmentally-related permits and requirements
- Industry-leading waste management programs (Heritage Environmental Services)



## COMMUNITY

- Volunteerism / Philanthropy Programs focusing on STEM education



## SAFETY

- Top tier safety performance (OSHA rate and KPI's) across all 5 sites
- Risk Management Program for Hazardous Chemical Handling
- OSHA Process Safety Management

**RECOGNITION**  
Member of  
**SOCMA and CPI**



SOCMA's  
ChemStewards®  
Program



2024 SOCMA Awards  
for all US sites



EcoVadis  
Company-wide  
Silver Rating



# Custom Manufacturing Key Processes



- **Largest distillation capacity** of any custom manufacturer
- **Largest EO/PO consumer** in the Midwest
- Industry leading **technical expertise** and **scale-up support**
- **Flexible assets**
- Dedicated **logistics** and **customer service** support

	HOUSTON (U.S.)	BAYTOWN (U.S.)	BAYPORT (U.S.)	PORT ARTHUR (U.S.)	BRANDENBURG (U.S.)	ANTWERP (BE)
Aldol condensation	✓					✓
Alkylation	✓	✓	✓	✓		✓
Alkoxylation (EO and PO)					✓	
Amination			✓	✓	✓	
Cyanoethylation			✓			
Dehydration	✓			✓		✓
Distillation	✓	✓	✓	✓	✓	✓
Esterification	✓		✓	✓		✓
Etherification	✓			✓		✓
Hydrolysis						✓
Hydrogenation	✓		✓			
Isomerization	✓			✓		✓
Melt crystallization		✓				
Oligomerization	✓			✓		✓
Transesterification	✓			✓		✓
Free Radical Polymerization					✓	
Novolak Synthesis					✓	



Visit us at  
**BOOTH 515**

## Griffin Ballroom

	Apeiron 906		Lechler 908		Clariant 912		Akron P 913		Aquaser 916		Custom 918		Superior 920		ProSys 922		Porous 926		SAMOA 928		Global T 930		Arch Sp 932				
GPS 120																									PureT 821		
Total 118	Neura 119	CJB In 218			Custo 219	Third 318			Ivanh 319	Clean 418			DGeo 419	Calca 518			Ameri 519	Uncou 618			Exsif 619	Chem 718			Future 719	Clean 818	Raybo 819
	Carpe 117	Bould 216			Forbe 217	Biddle 316			Kings 317	Rouss 416			Actale 417	Paul C 516			Amino 517	Trecon 616			CECO 617	Wiley 716			B&P L 717	Greif 816	
	Ganno 115	Powde 214			Provir 215	Sonea 314			AVEKA 315	Havila 414			Proce 415	EPIC S 514			Monu 515	Un va 614			VEGA 615	KemK 714			Arran 715	Heido 814	
	The St 113	CREM 212			Deepv 213	ASTEC 312			Kurar 313	LCI Co 412			Oakw 413	Royal 512			Pubk 513	SCHW 612			Repub 613	Mause 712			CurTe 713	HV2 C 812	
Powel 110	Rierd 111	Chem 210			Infor 211	Applie 310			Louis 311	Blue C 410			Valent 411	Curre 510			Comp 511	Parr I 610			Feder 611	Admix 710			Key In 711	Sagen 810	Avid S 811
	CAS 109	Seate 208			InChe 209	GfM M 308			MFG C 309	Shree 408			COEX 409	Datac 508			Santo 509	BUSS 608			Oden 609	Catex 708			South 709	aeSol 808	
	Thalet 107	Minas 206			Sinoc 207	Hamp 306			Thom 307	ProCh 406			LBB S 407	J. Ret 506			Adesis 507	AVN C 606			Weylc 607	Hallst 706			Arcan 707	Summ 806	
	South 105	Pres 204			Empov 205	Bepex 304			LANXE 305	Rockw 404			Aethe 405	Elan T 504			IPP - 505	BSI Er 604			Ortec 605	Comp 704			Chem 705	Titan 804	
SGS N 102	Hoove 103	Nation 202			Chem 203	Polysc 302			Chev 303	Optim 402			McGe 403	Centa 502			Toll S 503	EAR C 602			Ascen 603	GES C 702			Millik 703	Honey 802	Wagn 803
Thatc 100																											



SOLUTIONS FOR SPECIALTIES