



# AGC Chemicals Americas, Inc.

Your Global Source for Fluorochemicals

Your Dreams, Our Challenge



# Our Mission

We're committed to supplying our customers high-performance material solutions through our motivated employees, innovative technologies and responsiveness.

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# AGC Global Operations

A stylized world map in a medium blue color is centered on the slide. It shows the outlines of the continents. Four red rectangular callout boxes are overlaid on the map, each containing white text. The boxes are positioned over North America, Europe, Asia, and South America.

**A world-leading  
fluorochemical  
manufacturer**

**US \$14.2  
billion net sales**

**56,000  
employees**

**206 consolidated  
subsidiaries in 30  
countries**

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# AGC Global Operations



## Americas

4,500 employees  
US \$1.52 billion

## Europe

17,000 employees  
US \$3.47 billion

## Asia & Japan

34,500 employees  
US \$9.79 billion

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# Smart Chemistry Solutions

- U.S. headquarters & manufacturing near Philadelphia
- Certified ISO 9001:2015 and 14001:2015.
- Custom compounds and formulations for high-quality fluorochemicals and specialty chemicals
- Short production lead times, system-controlled specifications, product consistency.
- Onsite physical, analytical and wear testing
- Compression and injection molding equipment to optimize product

# Glass Products


- 
- 
- Low-E for insulated glass
  - Heat-treated for safety glass
  - Laminated and pattern glass
  - Mirrors
  - Solar glass - cover plate/anti-reflective
  - Polycarbonate resin sheets (rail tracks)
  - Automotive laminated/tempered
  - Automobile lights
  - Railway glass
  - Fluorescent lamps
  - Heat-resistant glassware
  - Glass and plastic products for physical, chemical and medical use

# Electronics and Display Products

- Flat-panel display (plasma & LCD)
- Backlight tubes for LCD
- Optical planar devices
- Projector materials
- Optical filters for plasma displays
- Glass frit paste
- Glass substrates for hard disks
- Micro glass for digital cameras



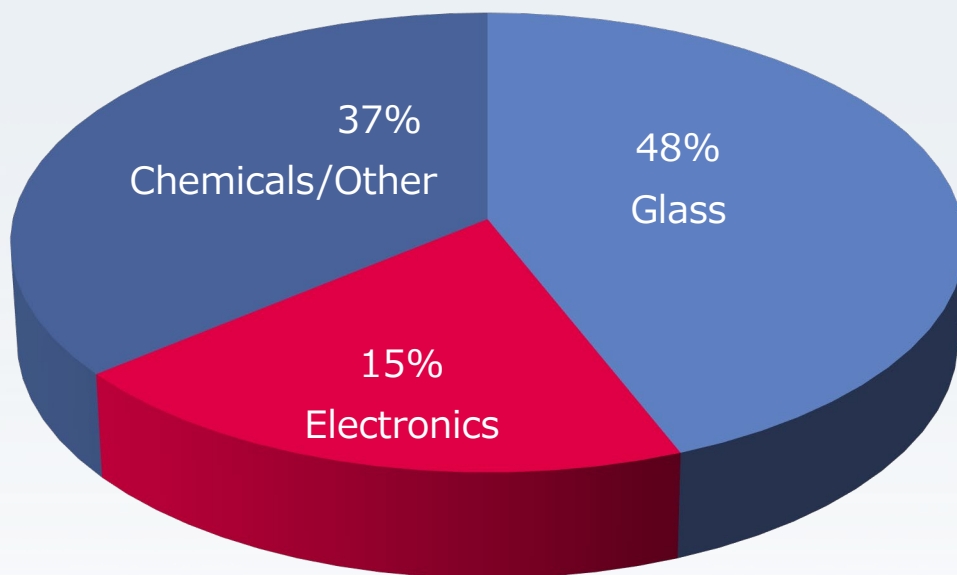
# Performance Polymers and Specialty Chemicals

- 
- A graphic of a molecular structure is positioned on the left side of the slide, overlapping the dark blue geometric shape. It features a chain of blue spheres connected by lines, with various other blue spheres and lines in the background, creating a sense of depth and complexity.
- Caustic soda – soaps
  - Sodium bicarbonate – household detergents
  - Sodium hypochlorite – fungicides, bleach
  - Urethanes/polyols – CASE apps
  - Fluorinated resin films – solar cells/architectural
  - Fluorinated resins/elastomers –coatings/additives
  - Fluorinated water/oil repellents– textile/non-woven Fluorinated intermediates –pharmaceuticals/agrochemicals
  - Fluorinated solvents – precision cleaning
  - Reinforced fluorinated compounds – auto/electronics/other apps
  - Fine silica gels – personal care products/chromatography/ catalysts supports/3D print

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## Global Sales



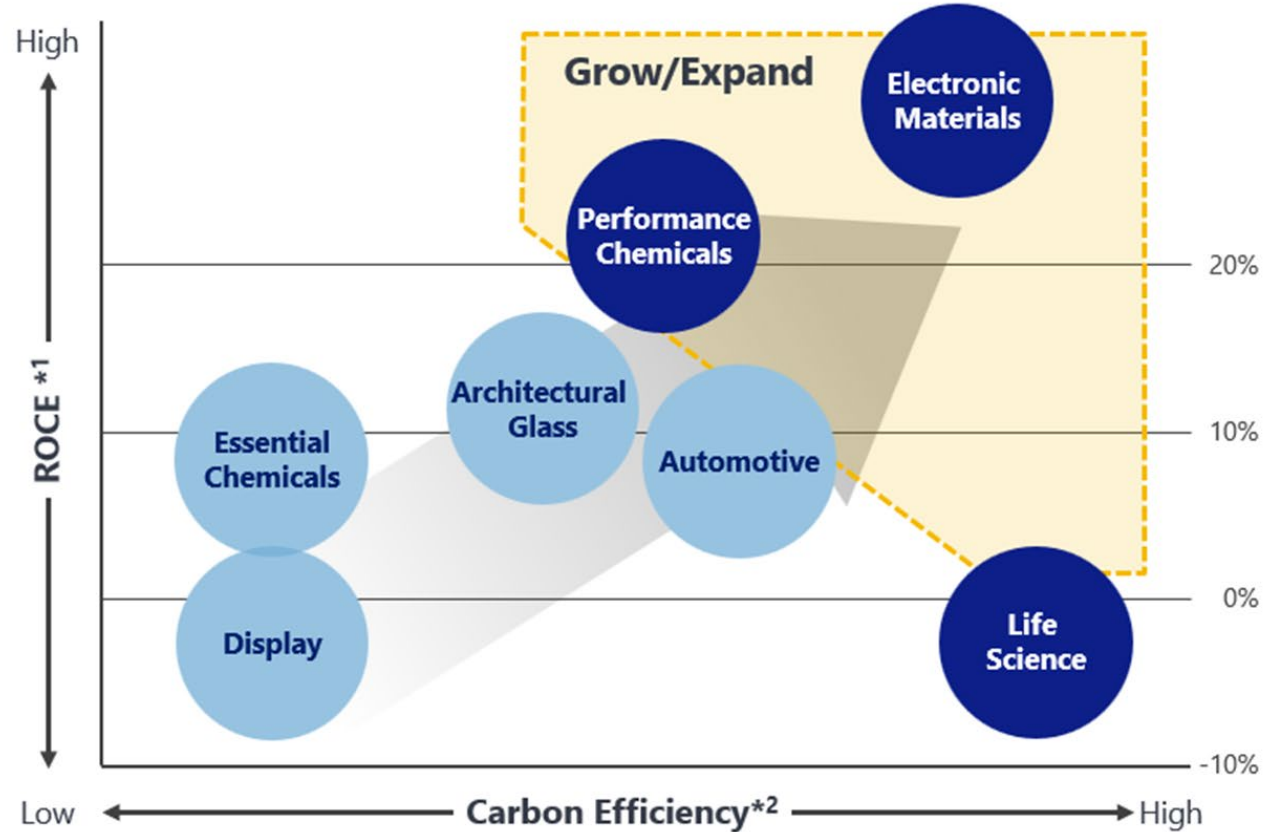
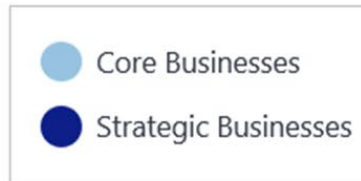
# Global Product Reach

- Top share worldwide
  - Float glass
  - Automotive glass
  - Car-mounted cover glass
  - Glass substrates for TFT-LCD/OLED
  - Super-thin soda-lime glass for electronics
  - EUV lithography photomask blanks
- No. 1 global supplier of ETFE and fluoropolymer resins for on-site coatings
- No. 1 in Southeast Asia for Caustic Soda and PVC

# AGC Group's Vision 2030

## Carbon and Asset Efficiency

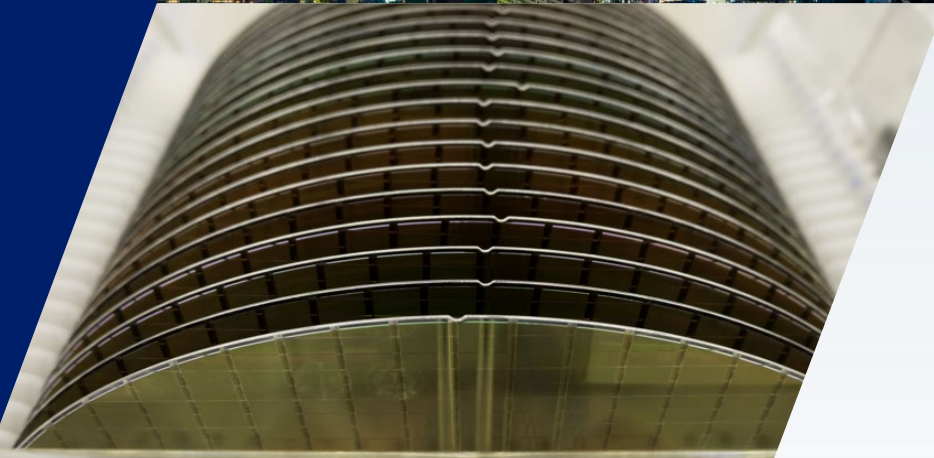
### Direction of the Business Portfolio



**ROCE** : (OP of the year) ÷ (Operating asset at the year-end),  
 Group-wide OP by business is after allocation of common expenses; OP for each business is before allocation of common expenses

\*1: Created based on FY2023 results    \*2: Based on 2022 emissions per 2023 sales

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# Vision 2030: Main Products & Businesses

## Main products & businesses

### ■ Mobility

- Cover glass for car-mounted displays
- New materials for mobility, including 5G communications

### ■ Electronics

- Semiconductor-related products
- Optoelectronics materials
- Next-generation high-speed communication related products
- Fluorinated products for electronics

### ■ Life Science

- Synthetic pharmaceutical and agrochemical CDMO
- Biopharmaceutical CDMO

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# Vision 2030: Promotion of Sustainability Management - Environment

- Establish medium- and long-term GHG reduction targets in 2021 and steadily promote.



**FY2030  
milestone**  
(from the 2019 figure)

**Scope 1**

**GHG emissions**  
(Scope 1+2 emissions)

**30% reduction**

**Scope 2**

**GHG emissions per unit of sales**  
(Scope 1+2 emissions/sales)

**50% reduction**

**Scope 3**

**GHG emissions**  
(Total of Scope 3 emissions in categories 1, 10, 11, and 12)

**30% reduction**



# Vision 2030: Promotion of Sustainability Management – Social

## “AGC People, the driver of our growth”

- **We will promote human capital management for continuous corporate growth.**
- We will encourage the growth of the strengths and abilities of each of our diverse human resources, support their independent learning and growth, and encourage them to take on challenges. The sum of each individual's growth will create a strong organization with high engagement, enhance corporate value, and realize AGC's mission.

**“AGC People:  
the driver of  
our growth!”**



# Chemicals Company Global Network

## AGC Chemicals Japan

- Headquarters – Tokyo
- Factories – Chiba and Kashima
- Sales offices – Tokyo, Osaka, Fukuoka, Nagoya
- R&D – Yokohama

## AGC Chemicals Asia

- AGC Chemicals Trading Co. Ltd.  
– Shanghai, China
- P.T. Asahimas Chemical  
– Jakarta, Indonesia
- AGC Chemicals Co. Ltd.  
– Bangkok, Thailand
- AGC Chemicals Asia Pacific Pte. Ltd.  
– Singapore

## AGC Chemicals Europe

- Head Office and Production Plant  
– Thornton Cleveleys, UK
- Chemicals Commercial Center  
– Amsterdam, The Netherlands
- Testing capabilities Hillhouse, UK

## AGC Chemicals Americas

- Head Office and Technical Center  
– Exton, Pa.
- Production Plant – Thorndale, Pa.
- Plant Expansion completed in 2023
- Sales office in Guaratinguetá Brazil

# Chemical Company Business Overview

## Industries

- Aerospace
- Construction & Infrastructure
- Life Sciences
- Electronics & Mobility
- Ground Transportation
- Industrial
- Energy
- Advanced Coatings

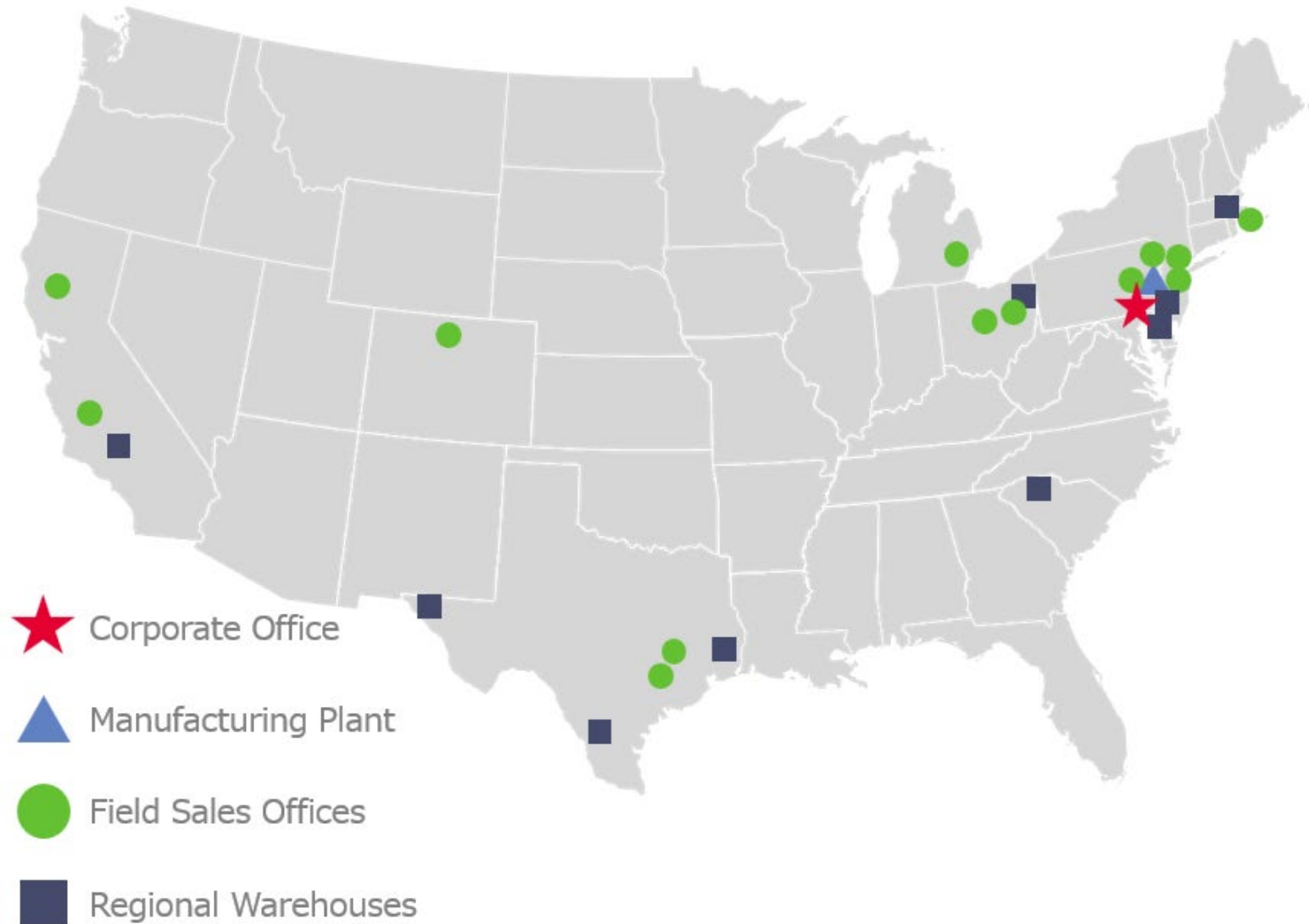
## Major Products

- Fluoropolymer Resins/Compounds
- Specialty Chemicals
- Fluoroelastomers

## Core Strengths

- Custom Manufacturing
- Research/Development
- Technical Support

# U.S. Locations





# A Collaborative Approach



Integrated communications processes unite all key stakeholders to create complete solutions for our customers based on industry input and expertise.

# The AGC Advantage

## Supply

## Quality

## Innovation

### Fluoropolymers

Breadth of Offering

Regional Warehousing  
throughout USA

World-Class Delivery  
Performance

### Custom Compounds

Stock and MTO products Available

Local Manufacturing Facility

Short Production Lead  
Times/Same-Day Shipping

### Specialty Chemicals

Direct Shipment Option

On-Site International Logistics  
Experts

Distributors/Local Stock

# The AGC Advantage

Supply	Quality	Innovation
Fluoropolymers	Custom Compounds	Specialty Chemicals
Consistent Quality & Reliable Performance, Lot to Lot	Extensive Manufacturing Experience, Product Consistency	Consistent Quality & Reliable Performance, Lot to Lot
System-Controlled Specifications	Custom Formulations	Detailed COAs Available
Quality and Conformance Certifications Available	System-Controlled Specifications	Field Support

# The AGC Advantage

Supply

Quality

**Innovation**

**Fluoropolymers**

**Custom Compounds**

**Specialty Chemicals**

Onsite Extrusion/  
Molding Equipment

On-Site Compression/  
Injection Molding Equipment

Product Enhancement

DOE and NDA

Physical/Analytical Testing

Application Development

Technical Support/  
On-Site Test Equipment

Wear Testing

Aging Testing (30+ years)



# Team Approach

## Field Sales

- Creates unmatched value by understanding customers' requirements
- Creates solutions through active listening and collaborative account planning

## Customer Service

- Experienced, cross-functional organization
- Solves complex supply chain problems

## Leadership

- Visionary, active facilitators
- Committed to customers

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# Team Approach

## Quality Assurance

- ISO 9001 and 14001 certified
- We value your feedback to improve our processes, products and, ultimately, your satisfaction

## Corporate Social Responsibility

- Chemistry for a Blue Planet Vision
- We will ensure that all our activities are safe for our employees, our customers and the public

## Technical Services Team

- A network of experts
- We will solve your challenges quickly using high-quality, environmentally compatible materials

# Sustainability Policy: Our Pledge

## We at AGCCA pledge to embrace a Culture of Sustainability

We will create sustainable solutions to support the long-term health of our employees, our communities and our surrounding environment; and ultimately the enduring success of our business. We recognize that AGCCA's contributions support the overall AGC Vision of Chemistry for a Blue Planet and commit to action at a local level.

- **In pursuit of Sustainability, we are guided by three main Pillars**
  - **People and Communities** – AGCCA pledges to support our current employees by providing a safe and healthy work environment with opportunities for growth and development; and to support local communities through charitable and educational programs (SDGs 2, 3, 8).
  - **Environment** – AGCCA pledges to constantly assess our impact on both people and the natural environment to create more efficient and greener manufacturing practices (SDGs 6, 7, 13, 14).
  - **Technology** – AGCCA pledges to focus on innovative material science solutions in support of the long-term success for AGCCA and our customers (SDGs 9, 11, 12).



# Technical Expertise

**Application  
Development**



**Product  
Development**



**Technical  
Support**



**Physical  
Testing**



**Analytical  
Testing**



**Environmental  
Studies**



**Material ID/  
Color Analysis**



# Resins and Fluoroelastomers



## Fluon® ETFE Resins

- Low-melt, pellets, beads grades
- Rotolining/rotomolding powders
- Can be custom compounded



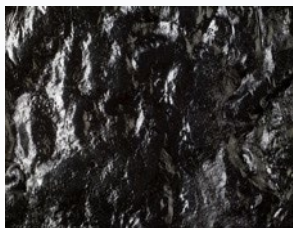
## Fluon® PTFE Resins

- Coagulated dispersions – fine powder grades
- Granular grades and aqueous dispersions
- Micropowders for lubricants/additives



## Fluon® PFA Resins

- Pellet and bead grades
- Powder grades as additives to other polymers
- Can be custom compounded



## AFLAS® Fluoroelastomers

- FEPM fluoroelastomers and Latex Series; FKM and FFKM/pre-compounds;
- Engineered to withstand harsh environments

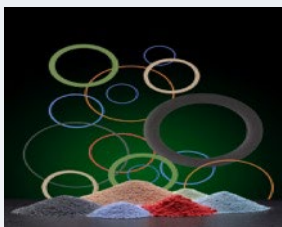


# Fluon+™ Custom Compounds



## Fluon+™ Filled PTFE Compounds

- Low flow – non-pelletized
- Highest mechanical properties



## Fluon+™ Filled PTFE Compounds

- Free flow – pelletized
- Automatic molded for seals/gaskets



## Fluon+™ Melt Processable Compounds

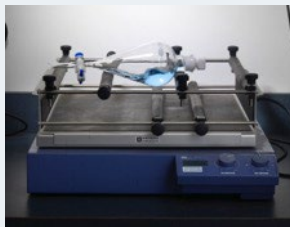
- Made with ETFE, FEP, PFA, ECTFE, MFA, PVDF
- Color concentrates/foam concentrates/conductives/reinforced/cross-linked/lubricated compounds



## Fluon+™ Adhesive, Fluon+™ mPLASTICS & Fluon+™ Modifiers

- Incorporates a functional adhesive monomer
- Fluorinated resins added to non-fluoros for enhanced performance characteristics and flexibility

# Specialty Chemicals



## AsahiKlin and AMOLEA™ Fluorosolvents

- 100% VOC-Free
- For precision cleaning and drying



## AsahiGuard E-SERIES™

- Oil/water and stain repellents
- For food packaging, nonwovens and technical textiles



## Fluon® ETFE Film/F-CLEAN® Greenhouse Film

- Architecture/solar cells/greenhouse coverings
- Excellent transparency, weatherability, strength



## Fine Silica Microspheres

- Multiple types of silica products
- Personal care products / chromatography / peptides / catalysts support  
3D printing resins / excipients / carbon capture / low dielectric fillers

# Specialty Chemicals (continued)



## LUMIFLON® FEVE Resins for Coatings

- Coatings with excellent weather and corrosion resistance
- Lower life cycle costs



## Intermediates

- For pharmaceutical/agrochemical compounds
- Fluoro Intermediates – perfluorohexyl chemistry



## Polyols for Polyurethanes & Foam Blowing Agents (HFO-1224yd)

- Specialty (high MW) and hybrid foam grades; refrigerant
- Flexible/rigid foams, adhesives/sealants, 3D printing resins; centrifugal chillers/ORC



## FORBLUE™ Membranes

- Separation technology and membrane gas dryers
- For caustic soda production, desalination and purification; electrolysis and electrodialysis and hydrogen production



# Contact Us for more Information

Learn more  
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