

AGC Chemicals Americas, Inc.

Your Global Source for Fluorochemicals

“Look Beyond”[®]

AGC

Our Vision, Your Benefit

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



“Look Beyond”®

AGC

Global Operations

World's #1 glass manufacturer

US \$11 billion net sales

Approximately 51,000 employees

200 consolidated subsidiaries in 30 countries

“Look Beyond”[®]

AGC

Global Operations



“Look Beyond”[®]



Glass Products



Automotive & Architectural Glass

- Low-E for insulated glass
- Heat-treated for safety glass
- Laminated glass
- 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

Electronics Glass

- 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

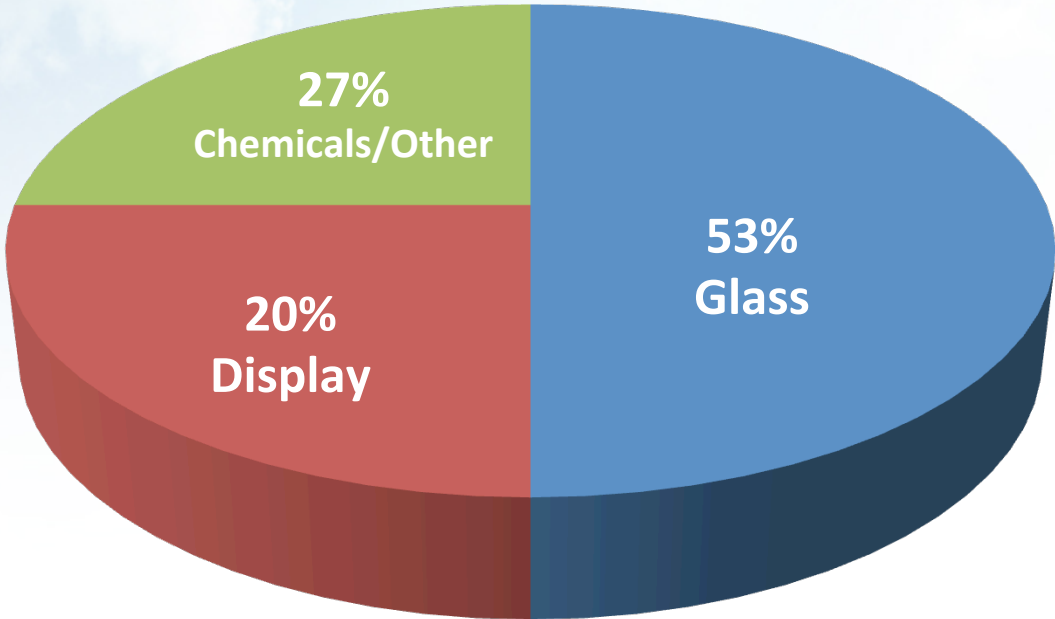


Chemical Products and Other

- Caustic soda – soaps
- Sodium bicarbonate
 - household detergents
- Sodium hypochlorite
 - fungicides, bleach
- Urethanes – automobile seats
- Fluorinated resin films
 - solar cells/architectural/agricultural
- Fluorinated resins/elastomers
 - coatings/additives/auto/electronics
- Fluorinated water/oil repellents
 - textile/non-woven/paper
- Fluorinated intermediates
 - pharmaceuticals/agrochemicals
- Fluorinated solvents
 - precision cleaning
- Reinforced fluorinated compounds
 - auto/electronics/other apps
- Fine silica gels – personal care products/
chromatography/catalysts supports

Global Product Reach

Global Sales



#1 global supplier of flat and auto glass

World's #1 supplier of ETFE

Largest global glass supplier to:
NISSAN
HONDA
TOYOTA

“Look Beyond”[®]

AGC Chemicals Group – Global Network

AGC Chemicals Japan

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

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
- Commercial Center – Amsterdam, The Netherlands

AGC Chemicals Americas, Inc.

- Head Office and Technical Center – Exton, Pa., USA
- Production Plant – Thorndale, Pa., USA

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AGC Chemicals Americas, Inc.

Industries

Resource Recovery	Life Sciences & Agrochemicals	Transportation	Alternative Energy
Chemical Processing	Construction & Architectural	Coatings, Solvents & Additives	Electronics & Semiconductor

Major Products

Fluoropolymer Resins/Compounds	Specialty Chemicals	Fluoroelastomers
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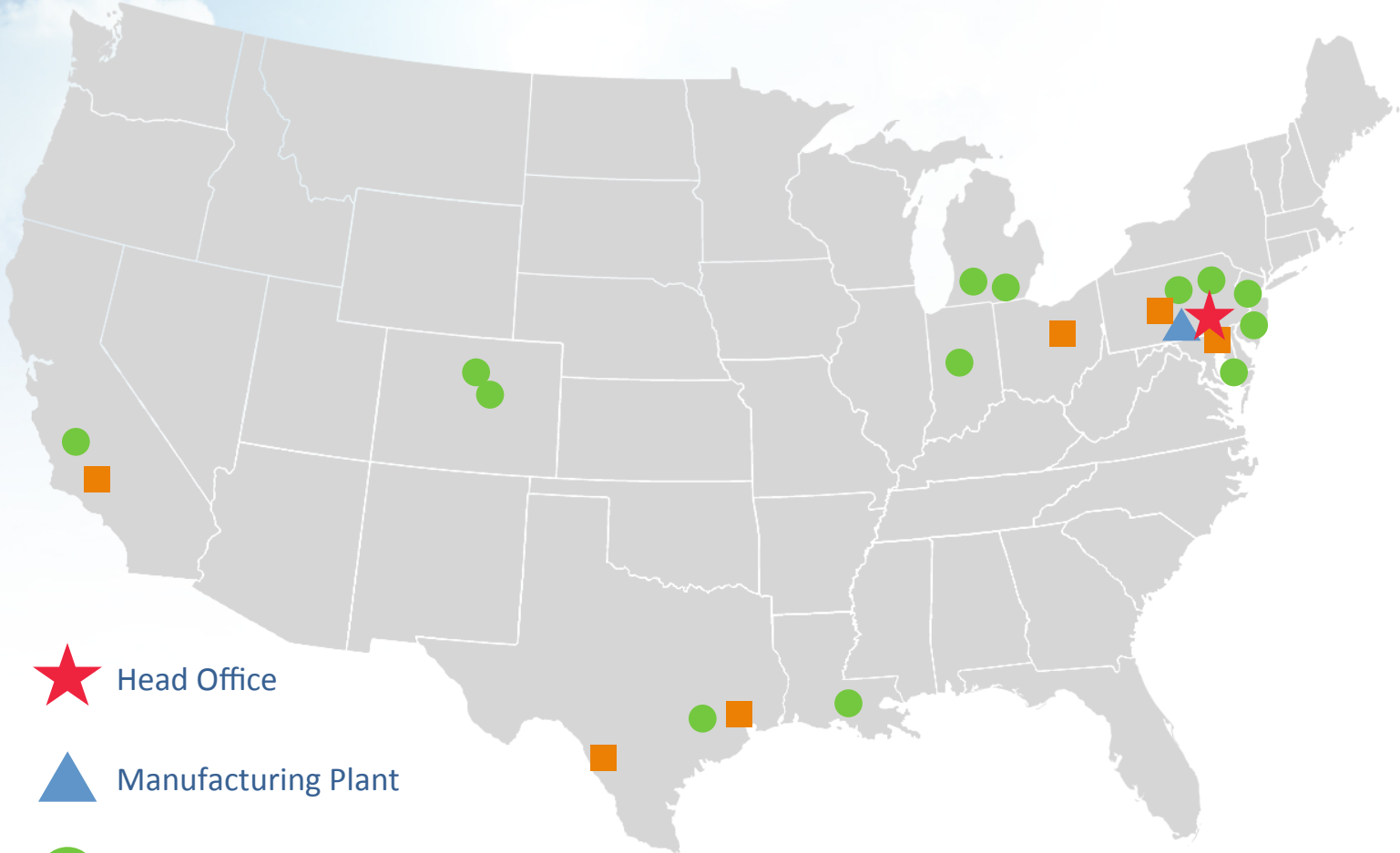
Core Strengths

Custom Manufacturing	Research/Development	Technical Support
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“Look Beyond”[®]



U.S. Locations



★ Head Office

▲ Manufacturing Plant

● Field Sales

■ Warehouses

“Look Beyond”[®]

AGC

A Collaborative Approach

Creating Comprehensive Solutions

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



“Look Beyond”[®]

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
to Control Costs

On-Site International
Logistics Experts

Distributors/Local Stock

“Look Beyond”[®]

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The AGC Advantage

Supply

Quality

Innovation

FLUOROPOLYMERS

Consistent Quality & Reliable Performance, Lot to Lot

System-Controlled Specifications

Quality and Conformance Certifications Available

CUSTOM COMPOUNDS

Extensive Manufacturing Experience, Product Consistency

Custom Formulations

System-Controlled Specifications

SPECIALTY CHEMICALS

Consistent Quality & Reliable Performance, Lot to Lot

Detailed COAs Available

Field Support

“Look Beyond”[®]

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The AGC Advantage

Supply

Quality

Innovation

FLUOROPOLYMERS

Onsite Extrusion/
Molding Equipment

DOE and NDA

Technical Support/On-Site
Test Equipment

CUSTOM COMPOUNDS

On-Site Compression/
Injection Molding Equipment

Physical/Analytical Testing

Wear Testing

SPECIALTY CHEMICALS

Product Enhancement

Application Development

Aging Testing (30+ years)

“Look Beyond”[®]

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Technical Expertise: Research & Development, Testing Capabilities

“Look Beyond”®

Application Development



Product Development



Technical Support



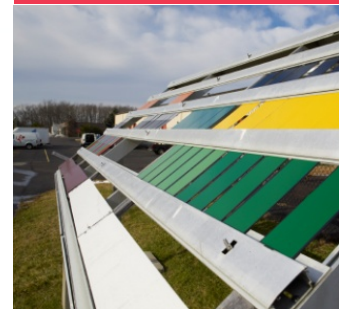
Physical Testing



Analytical Testing



Environmental Studies



Material ID/Color Analysis



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



Team Approach

Quality Assurance

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



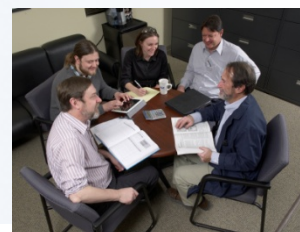
Corporate Social Responsibility

- Chemistry for a Blue Planet Program
- 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



High Performance Fluoropolymer Resins and Fluoroelastomers

(Imported from Japan and/or UK)



Fluon® ETFE Resins

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



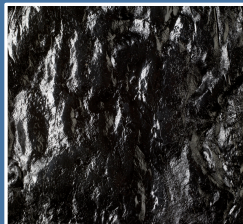
Fluon® PTFE Resins

- Coagulated dispersions – fine powder grades
- Micropowders for lubricants/additives
- PFOA-free at detectable levels



Fluon® PFA Resins

- Pellets and beads grades
- Can be custom compounded



AFLAS® Fluoroelastomers

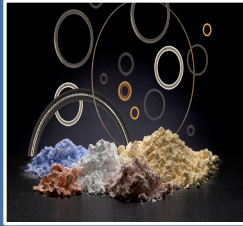
- 100, 150 and Latex Series; FKM and FFKM
- Engineered to withstand harsh environments

“Look Beyond”®

AGC

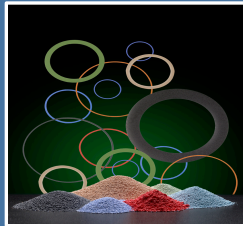
Custom Compounds

(Manufactured in the USA)



Fluon® Filled PTFE Compounds

- Low flow – non-pelletized
- Highest mechanical properties



Fluon® Filled PTFE Compounds

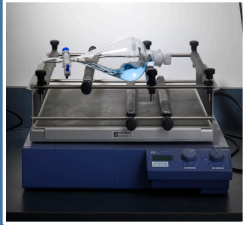
- Free flow – pelletized
- Automatic molded for seals/gaskets



Fluon® Melt Processable Compounds

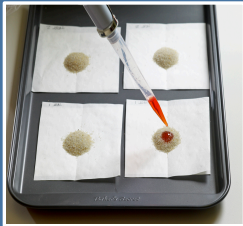
- Made with ECA, ETFE, FEP, PFA, ECTFE, MFA, PVDF
- Color/foam concentrates/conductives/reinforced/XL/lube

“Look Beyond”®



AsahiKlin and Amolea™ Fluorosolvents

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



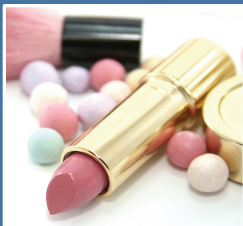
AsahiGuard E-SERIES

- Oil/water repellants
- PFOA-free at detectable levels



Fluon® ETFE Film/F-CLEAN® Greenhouse Film

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



Fine Silica Gels

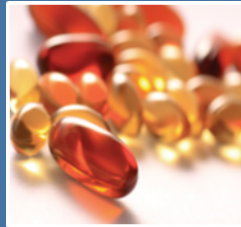
- Five types of silica gel products
- Personal care products/chromatography/catalysts supports

Specialty Chemicals



LUMIFLON® Fluoropolymer Resins

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



Intermediates

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



Polyols for Polyurethanes

- Specialty (high MW) and hybrid foam grades
- Flexible/rigid foams, adhesives/sealants



Flemion® Ion Exchange Membranes

- For caustic soda/caustic potash production
- Reduces the amount of electricity required for electrolysis of brine

AGC Chemicals Americas, Inc.

Intelligent resins

Custom compounds

Smart chemistry solutions

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