

Custom PTFE and Melt Processable Fluoropolymer Compounds



AGC  **FLUOROCOMPOUNDS GROUP**

Fluoropolymer Compounding is All We Do

AGC FluoroCompounds Group is the largest long-standing custom fluoropolymer compounder in the world. Drawing from an extensive global supply chain of resins and fillers, we can produce any filled PTFE or melt processable fluoropolymer compound, customized to your specific needs.

We also offer a wide selection of off-the-shelf compounds based on AGC Fluon® resins that can be used for increased chemical resistance, wear resistance, creep resistance, toughness, lubricity, thermal conductivity and electrical conductivity. All compounds are manufactured to precise specifications.

We have been compounding PTFE and other fluoropolymer resins for more than 50 years, and we offer you access to our dedicated technology center with specialized resources and equipment for fluoropolymer product development.



Commitment to Quality

As an ISO 9001 and 14001 registered and certified company, we embrace a Quality Philosophy of total dedication to continual improvement. We achieve this by focusing on our customers’ needs through partnerships and teamwork.

We value your feedback as an opportunity to improve our processes, products and, ultimately, your satisfaction.

Before it leaves our door, every lot of material is subjected to a thorough testing regimen to ensure the best quality and consistency from lot to lot. We supply test data with each shipment. Typical tests are listed on this page, and other test data can be supplied upon request.

MELT PROCESSABLE COMPOUNDS	FILLED PTFE COMPOUNDS
Melt Flow Rate	Tensile Properties
Bulk Density	Bulk Density
Filler Content	Filler Content
Color Index	Specific Gravity
Resistivity	Shrinkage

Our Pledge to the Environment: *Chemistry for a Blue Planet*

AGC Chemicals is committed to creating a safe, secure, comfortable and environmentally friendly world with chemical technology, and we have adopted this pledge as our company’s vision. We work as an active global participant in proactively developing fluorochemistries that have improved environmental and biological profiles.

Our environmentally friendly manufacturing processes allow for high-quality, consistent products. Fluon melt processable compounds do not contain lead, hexavalent chromium or cadmium, and they are used in applications where RoHS and REACH compliance are required. In 1993, these hazardous ingredients were removed from our formulations to provide a safe working environment for our employees and customers.



Supply Chain Management

AGC FluoroCompounds Group produces standard grades of compounds as well as custom blends. We stock a large assortment of products in our warehouses which are strategically located throughout the USA. By maintaining a steady supply stream through our sophisticated ERP system, we can get you what you need when you need it. We also offer make-to-order custom blends based on your specifications using efficient production processes that greatly reduce lead times and changeovers.

We also offer optimized freight and ergonomic packaging solutions to keep your transit costs down. Our clearly labeled, sturdy packaging will make your material easily identifiable and keep it free of debris. A dedicated and cross-functional Customer Service staff and knowledgeable Technical Sales Representatives will support your business and strive to understand your requirements to ensure success.



1964

ICI Fluoropolymers division began compounding fluoropolymer resins, operated through LNP Engineering Plastics.

1999

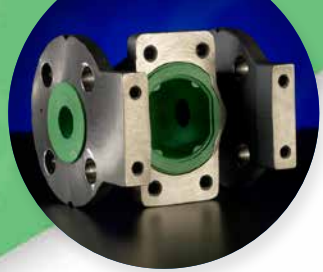

Asahi Glass Company purchased ICI Fluoropolymers division to become Asahi Glass Fluoropolymers.

2004

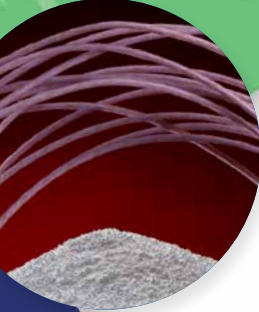
Asahi Glass Fluoropolymers merged with Asahi Glass America to become AGC Chemicals Americas.

2014

AGC Chemicals Americas launched FluoroCompounds Group.



Fluon Melt Processable Compounds



Designed to enhance properties and add pigment to a wide range of fluoropolymer resins, our Fluon melt processable compounds modify resistance, durability and lubricity. Improving the properties of ECTFE, ETFE, FEP, MFA, PFA and PVDF, Fluon melt processable compounds are custom manufactured to achieve your precise application needs.

We offer eight different types of melt processable compounds.

- Color concentrates
- Foam concentrates
- Cross-linkable compounds
- Conductive/anti-static compounds
- Reinforced compounds
- Lubricated compounds
- Flexible AR compounds
- Adhesive-grade compounds

Along with years of industry experience, technical expertise and an extensive variety of products comes our notable customer service. Our stand-alone technology center with specialized resources and equipment for product development enables us to offer customers around the world all levels of service, testing and support through every step of the process.

	ECTFE	ETFE ¹	FEP	MFA	PFA ¹	PVDF
Color Concentrates	Standard	Standard	Standard	Standard	Standard	Standard
Foam Concentrates	Custom	Custom	Standard	Standard	Custom	Custom
Cross-linkable Compounds		Custom				Custom
Conductive/Anti-Static	Custom	Custom	Custom	Custom	Custom	Custom
Reinforced Compounds		Custom	Custom	Custom	Custom	
Lubricated Compounds	Custom	Standard	Custom	Custom	Custom	Custom
Flexible AR (ETFE and Fluoroelastomer)		Custom				
Adhesive Grades		Custom				

¹AGC manufactured base resin

Fluon Filled PTFE Compounds

Tailoring PTFE to meet customized performance requirements by adding fillers requires both advanced technical expertise and dedicated attention to customer needs. AGC FluoroCompounds Group compounds any PTFE resin with pigments and fillers such as glass, graphite and metal powders. Parts and components made with these compounds display greater chemical resistance, wear resistance, creep resistance, toughness and lubricity than virgin PTFE resins and can provide thermal and electrical conductivity. Engineered for high performance and consistent quality, we offer both low flow (non-pelletized) and free flow (pelletized) PTFE compounds.

Low Flow Compounds

Low flow compounds are manufactured in powder form and are used in applications that demand the highest mechanical strength. Applications include thick-walled billets that are typically machined into parts used in the chemical process and petroleum industries as bearings, seals and gaskets. We offer our low flow compounds in packaging options of fiber drums, or returnable, recyclable drums.

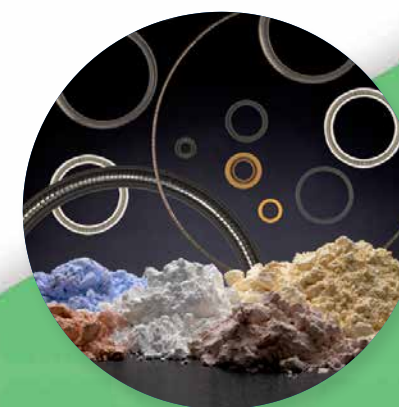
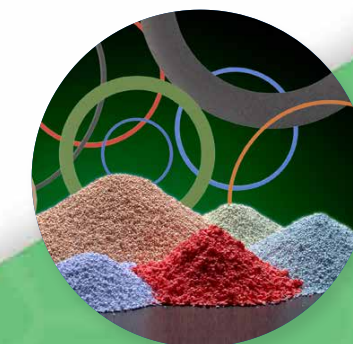
Free Flow Compounds

We manufacture free flow compounds in pellet form to increase bulk density and mold flow properties. These compounds are easily processed in automatic molding equipment and readily flow from standard design hoppers and other bulk feeding equipment. They are engineered to improve key physical properties and product uniformity. Free flow characteristics allow for consistent manufacturing of self-lubricating bearings, gaskets, valve seals and sealing rings.

Our free flow compounds are packed out in heavy duty corrugated boxes with 35lbs net resin weight per box.

COMMON FILLERS WE USE

Glass
Carbon
Graphite
Carbon Fiber
Molybdenum Disulfide (Moly)
Bronze
Mineral
Polyphenylene Sulfide (PPS)
Polyimide
Ekonol® or Aromatic Polyester



Fluon®

Comprehensive Technical Solutions

We offer personalized technical support and R&D at our state-of-the-art technical center in Exton, Pennsylvania, located within proximity to our production plant. Our industry experts have decades of experience and will work with you to select or develop the best compound for your specific needs. Some of our services include:

- Formulating and compounding samples
- Injection and compression molding equipment
- Film line with three-roll stack and 12" film die
- Automatic molding machine

Sampling of our testing capabilities

Physical Testing

- Tensile strength, elongation and flexural properties at room and elevated temperatures
- Instrumented wear
- Hardness
- Deformation under load
- Drop weight impact
- Conductivity
- Melt flow rate
- Color characterization and light transmittance
- Optical and scanning electron microscopy
- Computerized color matching

Analytical Testing:

- Differential scanning calorimetry (DSC)
- Thermogravimetric analysis (TGA)
- Dynamic mechanical analysis (DMA)
- Fourier transform infrared spectroscopy (FTIR)
- Capillary rheometry



AGC Chemicals Europe, Ltd.

PO Box 4
Thornton Cleveleys
Lancashire FY5 4QD United Kingdom
Tel: +44 (0) 1253 861951
Fax: +44 (0) 1253 861950
www.agcce.com

AGC Chemicals Asia Pacific Pte., Ltd.

460 Alexandra Road, #30-02
PSA Building
119963 Singapore
Tel: +65-6273-5656
Fax: +65-6276-8783

AGC Chemicals Americas, Inc.

Thorndale Plant
255 South Bailey Road
Downingtown, PA 19335

AGC Chemicals**Asahi Glass Co., Ltd.**

Shin-Marunouchi Bldg, 1-5-1 Marunouchi
Chiyoda-ku, Tokyo 100-8405 Japan
Tel: +81-3-3218-5875
Fax: +81-3-3218-7856
www.agc.com

AGC Chemicals

Chemistry for a Blue Planet

AGC Chemicals Trading (Shanghai) Co., Ltd.

Room 2701-2705, Metro Plaza
555 Lou Shan Guan Road
Chang Ning Ward, Shanghai, 200051 China
Tel: +86-21-6386-2211
Fax: +86-21-6386-5377 / 5378

AGC

AGC Chemicals Americas, Inc.

55 E. Uwchlan Avenue, Suite 201
Exton, PA 19341
USA

Telephone: +1 610-423-4300
Toll Free (US only): 800-424-7833
Fax: +1 610-423-4305

www.fluorocompounds.com

Visit our website for compliance information and industry certifications.

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