

Customized High Purity Thermoplastic Components and Perfluoroelastomer Seals for Bioprocess and Medical Devices

Materials. Engineering. Performance.





EGC Critical Components designs and manufactures thermoplastic components and custom perfluoroelastomer seals to address your high-purity applications and prototyping to full-scale production equipment challenges. As industry leaders in difficult-to-manufacture products for specialized applications, each customized product and solution benefits from our extensive machining and molding capabilities.

We get the job done.

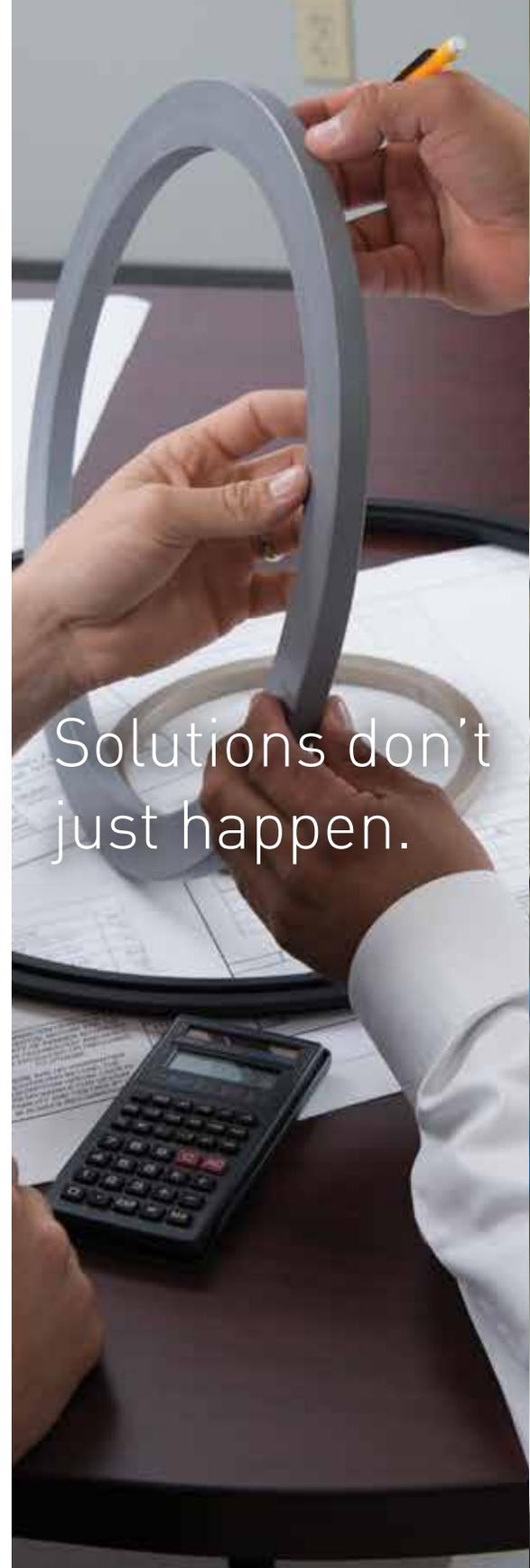
For process critical applications where long life or duty cycle is required, we custom engineer components for a wide variety of temperatures and media. Life Science OEMs depend on EGC components for medical, surgical, and veterinary devices including:

- Oxygen concentrators
- Analytical devices
- Chromatographs
- Blood and gas analyzers
- Fluid handling equipment
- Pharmacological processing

We design for value.

Our team works with you closely, from design to final product, creating a solution that matches your specifications. We supply custom engineered components for:

- **Seal solutions** – HPLC seals, piston cups, packing, and custom sealing solutions
- **Wear products** – Bearings, bushings, and glide rings
- **Precision components** – Pumps and valves, battery applications, fixation devices, filtration systems, purification systems, single-use packaging, and laboratory containers



Solutions don't just happen.



They are
engineered.

We customize performance.

Building on advanced materials science, we design, engineer, and manufacture components that make critical applications work—materials expertise is what sets us apart. Whether using existing proprietary formulas or tailoring a custom blend to your specific application, we provide innovative, high-performance solutions with leading edge capabilities.

The toughest challenges rarely have off-the-shelf solutions. Performance and market differentiators come from custom products built for the task—and ours are built for yours. We'll design it or give shape to your designs.

We know cleanliness matters.

Products comprised solely of polymeric materials are a good fit in environments requiring sterilization as well as in areas where cryogenic or elevated temperature conditions exist. To meet these challenges, EGC Critical Components currently operates a Class 1000 clean room.

Longer Life Than Competition

Piston cups are a small, but vital, component for oxygen concentrators used by emphysema patients. EGC developed a cup material to enable round-the-clock usage for an unrivaled five years of service.

Specialty Materials and Manufacturing

We created a 32-cavity ventilation mold for the small batteries used in hearing aids. The product was made from glass-filled fluoropolymers. We developed a unique mold using a non-standard material that allowed us to manufacture more than 100 million parts per year while maintaining tolerances of 0.0015-in.



To learn how EGC Critical Components can improve performance in your operations, please visit our website at EGCcomponents.com

Or talk with our experts at 281.774.6100

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In-depth Solutions

EGC Critical Components is a designer and manufacturing of custom thermoplastic and elastomeric products. As a part of the global group Fenner, we partner with clients to product unique solutions in many industries including industrial, medical, and scientific applications.

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