



## **Advanced Industrial Highlights PTFE Product Line to Meet Growing Demand for High-Performance Materials**

*October 14, 2025*

MOORESVILLE, NC - October 14, 2025 - PRESSADVANTAGE -

Advanced Industrial, a leading manufacturer of high-performance, custom-machined PTFE and Teflon® components, emphasizes its commitment to meeting the rising demand for innovative sealing solutions with the addition of a specialized product line. This initiative aligns with industry trends reflecting an increased need for materials that ensure reliability in demanding applications.

The product line features back-up rings designed to enhance the performance of seals in high-pressure environments. Back-up rings are integral in preventing the extrusion of O-rings, thereby protecting the functionality of sealing systems where standard products frequently fail. By using advanced materials, Advanced Industrial is addressing the specific requirements of various industries, including oil and gas, chemical processing, and pharmaceuticals.

"Enhancing the durability and reliability of sealing solutions is critical in industries where failure is not an option," said Paul Cedrone, CEO of Advanced Industrial. "Our custom PTFE machining by Advanced Industrial allows us to tailor products to meet exact specifications, ensuring operational integrity.?"

The demand for high-performance materials is particularly acute as industries face increasingly challenging competitive environments. Advanced Industrial's product line leverages the unique properties of Teflon®, providing unmatched chemical resistance and temperature stability. This adaptability makes PTFE an ideal choice for applications where traditional materials fall short.

The precision-engineered back-up rings are particularly effective in sealing applications that require robust performance under fluctuating temperature and pressure conditions. With capabilities ranging from cryogenic to elevated temperatures, these rings ensure that equipment continues operating within safe parameters.

"In the face of escalating operational demands, our products provide assurance that systems remain functional and safe," Cedrone remarked. The focus on high-performance solutions reflects a broader shift towards reliability in industrial applications where performance failures can have severe consequences.

The engineering capabilities of Advanced Industrial extend to custom machining of PTFE gaskets and seals for specialized applications. Standard off-the-shelf components often inadequately meet the unique demands of industrial systems. Thus, the company specializes in manufacturing tailored solutions that significantly mitigate the risk of leaks and failures.

Advanced Industrial's expertise in precision CNC machining further complements its ability to produce high-quality valve seats and thrust washers. These components are critical in various applications, ensuring continued functionality in mechanical systems that encounter significant axial loads. With extensive experience in this domain, the company is positioned to lead the market.

The expansion of Advanced Industrial's product line also includes precision-machined PTFE and Teflon® thrust washers, engineered to manage axial loads in rotating assemblies across diverse mechanical systems. These thrust washers address a critical need in applications where standard components fail to withstand the wear, friction, and environmental challenges inherent in high-performance equipment. By utilizing advanced PTFE compounds enhanced with fillers such as bronze, carbon, and glass, Advanced Industrial delivers thrust washers that provide superior durability while eliminating the need for external lubrication. The company's expertise in custom machining enables the production of thrust washers in virtually any configuration, from standard flat designs to complex profiles featuring anti-rotation tabs, grooves for debris management, and lightweight scalloped designs for aerospace applications where minimizing component weight remains paramount.

Complementing the thrust washer line, Advanced Industrial's custom PTFE and Teflon® valve seats represent another custom product line. Valve seats serve as the sealing surface against which plugs, balls, or discs compress to prevent fluid or gas leakage, making material selection crucial to operational integrity. The company machines valve seats from various PTFE grades. This material versatility, combined with precision

CNC machining capabilities, enables Advanced Industrial to produce valve seats meeting exact specifications for industries ranging from oil and gas to water treatment, where reliable sealing performance directly impacts process safety and efficiency.

All of these PTFE solutions are now available for order, with options tailored to specific operational requirements. This response to market needs solidifies Advanced Industrial's role as a key player in the high-performance materials sector, driving advancements that benefit critical infrastructure and varied industrial applications.

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### **Advanced Industrial**

*Advanced Industrial is a plastic Distributor/Fabricator, specializing in high-performance plastic shapes and CNC-machined components.*

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