

MRO Material Solutions That Maximize Efficiency and Minimize Downtime

Interstate Advanced Materials offers material solutions to lifespan of industrial equipment used across the Maintenance, Repair, and Operations (MRO) sector.

SACRAMENTO, CA, UNITED STATES, September 18, 2024 / EINPresswire.com/ -- Interstate Advanced Materials offers [material solutions that enhance the lifespan of industrial equipment](#), minimize repairs, and boost operational efficiency compared to traditional materials like metal and are an essential part of the equipment used across the Maintenance, Repair, and Operations (MRO) sector.

Material solutions like nylon, PTFE, acetal, and UHMW are ideal for bushings and bearings due to their excellent wear resistance and low friction. They are self-lubricating and can operate in areas where lubrication is challenging or impossible, reducing maintenance costs and downtime.

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Christopher Isar



The Maintenance, Repair, and Operations (MRO) sector employs a wide variety of materials to enhance the efficiency and longevity of equipment, including plastics like PEEK, PTFE, UHMW, and nylon.

These thermoplastics withstand a range of temperatures and are resistant to many chemicals, making them reliable in demanding environments. Nylon, acetal, and UHMW are well-suited for corner tracks, rails, bumpers, roller and slide pads, and other key components in manufacturing equipment.

Thermoplastics such as polyethylene and polycarbonate as well as thermoset materials like phenolic composites offer outstanding dielectric properties that stop electrical

currents from flowing through them. These materials serve as effective electrical insulators that prevent shocks and accidents in the MRO sector.

Though variable in other properties, polyethylene, polycarbonate, and phenolic composites are ideal for applications that require electrical insulating properties as well as mechanical strength.

Seals and gaskets require materials that resist wear, are chemically compatible with fluids, and can handle significant fluctuations in temperature. Material solutions like PEEK, polypropylene, and polyurethane are popular choices for seals and gaskets due to their resistance to chemicals and low moisture absorption, preventing swelling or degradation. Their mechanical strength and durability help maintain shape and functionality under pressure, ensuring long-lasting, reliable seals across various working environments.

Acetal, PTFE, and UHMW are ideal for valve components, offering low friction and wear resistance for smooth, reliable movement. Their high chemical resistance ensures durability against corrosive substances, extending the lifespan of components. Low moisture absorption properties help maintain their performance in damp environments, and their strength and durability allow them to withstand the mechanical stresses of valve applications. These qualities lead to fewer replacements and repairs, contributing to increased efficiency and lower maintenance costs.

Thermoplastics such as ABS and PVC are perfect for housings that protect sensitive internal components from shocks, vibrations, chemical spills, and other hazards. These materials are easily machined or thermoformed into the required shapes, making them versatile options for creating durable, protective housings that contribute to increased efficiency in MRO applications by reducing equipment failures and maintenance costs.

Interstate Advanced Materials offers a wide selection of material solutions for MRO equipment and applications. MRO professionals looking to reduce their material costs can [save 30%+ on maintenance, repair, and operations materials](#) with an Interstate Advanced Materials membership. To learn more about [MRO materials](#) and how they can improve operational efficiency, call a material expert at 800-742-3444.

Interstate Advanced Materials is a full-line distributor of high-performance sheet, rod, tube, plate, and bar, and proudly serves many diverse industries, including OEM, semiconductor, food processing, POP display, government, agriculture, automotive, and many others. With 10 locations nationwide and an online sales and support team, Interstate Advanced Materials provides full sheets and pallets, cut-to-size service, complex CNC, welding solutions, and full machining capabilities.

Interstate Advanced Materials is known for selling high-quality products, providing excellent customer service, and providing superior technical support. Excellence in all facets of the

customer experience has been the cornerstone of Interstate Advanced Materials for over 40 years.

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