# Fluorotechnology Makes Possible **Important Products in Vital Industries**



Fluorotechnology is essential to the reliable and safe functioning of products used by consumers and industry every day. When fluorine and carbon atoms join, they form a powerful chemical bond, giving materials strength, durability, heat resistance, and stability. Here are some common applications of fluorotechnology:



# **ALTERNATIVE ENERGY**



# **ELECTRONICS**

water resistance



Qualities: Insulation, durability. heat and chemical resistance, and disease transmission prevention

MRI imaging devices, medical garments, and drapes



# AUTOMOTIVE



## **SEMICONDUCTORS**

Qualities: Durability and heat and chemical resistance

Examples: Micro-electronics, plasma machinery, etching materials, cleaning fluids, and wetting surfactants for chemical etchants



Qualities: Heat resistance, insulation

Examples: Safety gear used to medical personnel.



# CHEMICAL/ **PHARMACEUTICAL MANUFACTURING**

Qualities: Heat and corrosion resistance

Examples: Chemical coatings, linings, and equipment



## BUILDING/CONSTRUCTION



## **MILITARY**

Qualities: Durability and heat and chemical resistance



# OIL AND GAS

Qualities: Durability and heat and chemical resistance

Examples: Oil field and pipeline operations safety equipment, fuel system seals and hoses, O-rings, and downhole/field equipment gaskets



### AEROSPACE/DEFENSE

Qualities: Chemical resistance, weather resistance, and insulation

Example: Fluid seals, hydraulic fluids used in aircraft control systems, and aircraft communications and navigation systems