

THE FLUOROPOLYMER INDUSTRY IN THE UNITED STATES

A SOCIOECONOMIC PERSPECTIVE

Prepared by the Fluoropolymer Industry with Support from AGC, Chemours, Daikin and 3M

Fluoropolymers By the Numbers



1,500

Direct Jobs



13,500

Indirect Jobs

Downstream Jobs

Hundreds of thousands of additional jobs are supported by industries that rely on fluoropolymers.

\$520M

Trade Surplus

\$150M

Research & Development

(6.4% OF REVENUE OF INTERVIEWED COMPANIES)

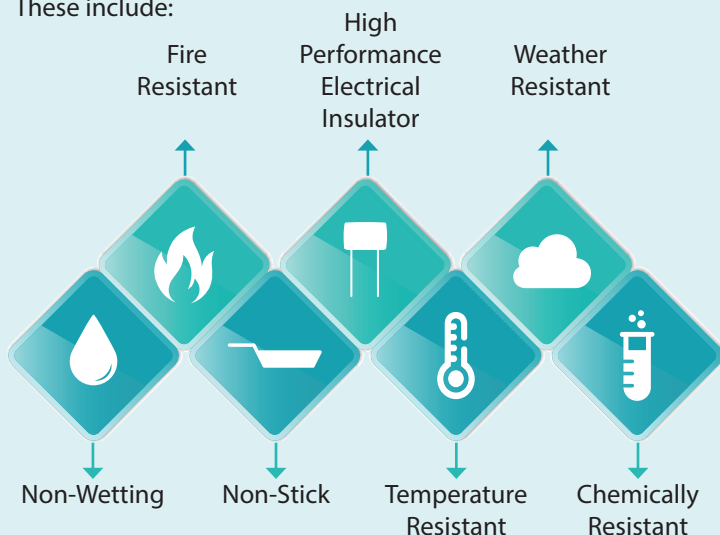
Key Sectors Dependent on Fluoropolymers

	Electronics	\$550M
	Transportation	\$530M
	Medical & First Responders	\$100M
	Chemical & Industrial Processes	\$330M
	Consumer Products	\$200M
	Energy	\$140M
	Building & Construction	\$90M
TOTAL		\$2.1B

UNIQUE COMBINATION OF PROPERTIES

Fluoropolymers are polymers with fluorine atoms directly attached to their carbon backbone. Fluoropolymers are materials that possess a unique combination of properties, making them more functional, durable, stable, efficient, versatile and critical to the performance and benefits of the products they enable.

These include:



A WORLD WITHOUT FLUOROPOLYMERS

The combination of properties that fluoropolymers offer sets them apart.

Without fluoropolymers...





KEY SECTORS DEPENDENT ON FLUOROPOLYMERS

A CLOSER LOOK

SECTOR	PRODUCTION VALUE	DOWNSTREAM EMPLOYMENT	HOW FLUOROPOLYMERS ARE USED
Electronics 	\$550M	250,000 SEMICONDUCTOR EMPLOYEES	Critical to the development of semiconductors and printed circuit boards that are found in nearly all electronic devices. Fluoropolymers make electronics including cell phones more affordable, smaller and safer due to heat resistant materials.
Transportation 	\$530M	4,000,000 AUTOMOTIVE & AUTOMOTIVE PARTS EMPLOYEES	Enhance reliability, safety and communication of automobiles and aircraft. Fluoropolymers are also used to make fuel cells, hoses and gaskets that help your vehicle perform, increase durability and increase fuel efficiency.
Medical & First Responders 	\$100M	356,000 MEDICAL DEVICE INDUSTRY EMPLOYEES	Used in surgically-implantable medical devices to increase the lifetime of implants, reducing the likelihood of infection and invasive surgery. Fluoropolymers also provide excellent performance and long lifetimes in equipment such as catheters, guide wires, filters and pumps.
Chemical & Industrial Processes 	\$330M	542,000 CHEMICAL INDUSTRY EMPLOYEES	Contribute to corrosion and leaching prevention, reduced leaks, lower maintenance and prevention of emissions, particularly in applications involving aggressive chemical fluids. Fluoropolymers are used in coatings, linings, piping, vessels, fluid-handling components, filters, vents and cable coatings.
Consumer Products 	\$200M	1,500,000 METAL PRODUCT FABRICATOR EMPLOYEES	Used in linings for wind and rain resistant coats that keep outerwear light, durable and breathable, while still protective.
Energy 	\$140M	855,000 RENEWABLE ENERGY EMPLOYEES	Critical to casings and surface sealants of renewable energy sources like wind turbines and solar panels that help enable sustainable energy and lower your power bills.
Building & Construction 	\$90M	7,200,000 CONSTRUCTION SECTOR EMPLOYEES	Used for coatings on steel and concrete bridges for durability that make your commute safer and lower the cost of public road repairs.