

THE FLUOROPOLYMER INDUSTRY IN THE UNITED STATES

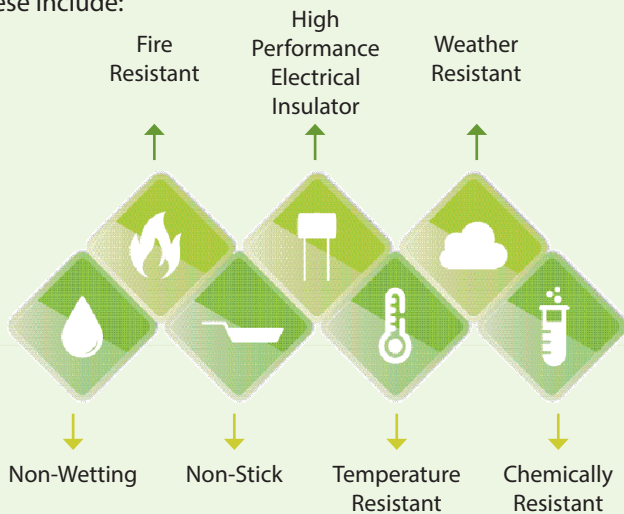
A SOCIOECONOMIC PERSPECTIVE

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

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 efficient, versatile and critical to the products that they enable.

These include:



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)

ELECTRONICS: A CLOSER LOOK

Fluoropolymers are critical to the semiconductor industry because of the unique combination of properties they offer. They are used for piping, vessels, valves and pumps that need to withstand aggressive etching chemicals, and maintain the high purity needed to make semiconductors function. The Semiconductor Industry:



\$210B

Sector



Employs

250,000

Americans

Benefits of Fluoropolymers to Electronics:

- ⚙ Increase lifespan of the components they are used in by up to three times
- ⚙ Improve fire safety
- ⚙ Increase transmission speeds
- ⚙ Enable smaller components and final products
- ⚙ Enhance the installation and reliability of wires and optical and data cables

Critical Uses in Electronics

- ⚙ Printed circuit boards in many electronics including cell phones
- ⚙ Display and touch screen panels and coatings
- ⚙ LED packaging/encapsulants
- ⚙ Copier rolls and paper feeders
- ⚙ Wire and cable insulation in many kinds of electronic equipment
- ⚙ Piping, vessels, valves and pumps used in semiconductor manufacturing

