

THE FLUOROPOLYMER INDUSTRY IN THE UNITED STATES

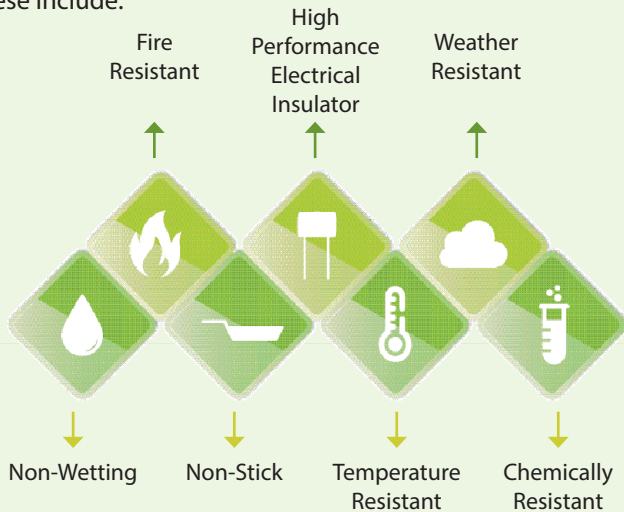
A SOCIOECONOMIC PERSPECTIVE

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



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)

TRANSPORTATION: A CLOSER LOOK

Fluoropolymers play a critical role in the transportation industry and are used in many components of cars, trucks and aircraft. They are critical for high performance over a wide range of harsh operating conditions and contribute to both passenger safety and emission controls.

The Transportation Sector:



Added

\$1,070B

to GDP in 2016



6%

of Total GDP

Benefits of Fluoropolymers to the Transportation Sector:

- Better fuel economy by reducing vehicle weight
- Lower exhaust emissions, including both carbon and NOx gasses
- Increased lifetime of components
- Improved reliability and lower maintenance costs
- Increased comfort and noise reduction
- Enables use of alternative fuels and power storage batteries
- Helps avoid oil and fluid leakage

Critical Transportation Uses:

- Fuel lines, fuel hoses and turbocharger hoses
- O-rings
- ABS brake lines
- Greenhouse gas emissions controls
- Fuel cells and batteries in electric vehicles
- Insulation for cables and wires in aircraft and spacecraft
- Aerospace materials, tapes and gaskets
- Electronic systems

