

The Chemours Company Teflon™ PTFE & Melts



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Key Messages From Chemours



Refreshing
Simplicity



Safety
Obsession



Customer
Centered



Collective
Entrepreneurship



Unshakable
Integrity

Chemours Values

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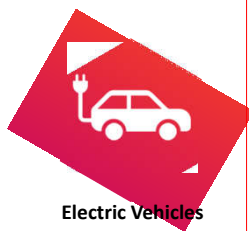
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Three Components of Acceleration – Advanced Performance Materials

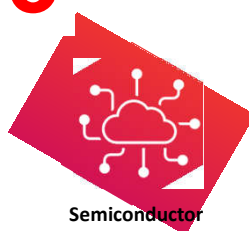
1 Sustainability

Responsible Supplier: Raising the Bar and Industry Standard

2 Clean Energy



3 Advanced Electronics



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Teflon™ PTFE & Melts: Global Manufacturing Sites



WW, West Virginia
PTFE & Melts

DW The Netherlands
PTFE & Melts

CSW Changshu
PTFE

Circleville, OH
Melts

Shamrock, KY
PTFE

MCF JV
Melts



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Macro Economic Indicators

GLOBAL APM MARKET INDICATORS SUMMARY					YOY % Change										2023 Variance v Prev Month
					2022 (Q22 x Q21)				2023 (Q23 x Q22)				Last update: Mar-23		
Market	Indicator	Q1'22	Q2'22	Q3'22	Q4'22	Q1'23	Q2'23	Q3'23	Q4'23	FY 2022	FY 2023	FY 2024			
Macro Economics	World GDP	4.4	3.1	3.0	1.8	1.8	2.1	1.5	1.6	3.1	1.8	2.5	📈		
	US GDP	3.7	1.8	1.9	0.9	1.8	2.0	0.3	0.4	2.1	0.9	0.6	📈		
	Eurozone GDP	5.5	4.4	2.4	1.8	1.3	0.4	0.2	0.5	3.5	0.6	1.2	📈		
	China GDP	4.8	0.4	3.9	2.9	3.8	6.9	4.4	4.8	3.0	5.0	4.3	📈		
	World Industrial Production	3.6	1.3	2.9	1.1	0.7	1.1	1.0	2.2	2.2	0.9	3.5	📉		
	US IP (Industrial Production Index)	4.8	4.5	4.0	2.1	0.7	0.9	2.2	2.3	3.8	1.2	0.1	📈		
	Eurozone IP (Value Added Output)	2.3	2.3	2.2	1.0	0.6	0.6	0.1	1.1	2.0	0.1	3.1	📈		
	China IP (Value Added Output)	6.1	0.2	4.7	2.5	0.4	5.0	4.8	5.8	3.4	3.8	5.1	📈		

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EMEA Macro Trends by Industry

E.M.E.A.P.M MARKET INDICATORS SUMMARY (* Eurozone)					YOY % Change									Last update: Mar-23		Variance vs Prev Month
Market	Indicator	2022 (Q22 x Q21)				2023 (Q23 x Q22)				FY 2022	FY 2023	FY 2024				
		Q1'22	Q2'22	Q3'22	Q4'22	Q1'23	Q2'23	Q3'23	Q4'23							
Macro Economics	Eurozone GDP	5.5	4.4	2.4	1.8	1.3	0.4	0.2	0.5	3.5	0.6	1.2		📈		
	Industrial Production (Value Added Output)	2.3	2.3	2.2	1.0	-0.6	-0.6	-0.1	1.1	2.0	-0.1	3.1		📈		
	Consumer Price Index	6.2	6.1	6.3	6.0	7.9	6.0	6.4	2.1	6.4	5.0	3.2		📈		
	Purchasing Manager Index (HS PMI Manufacturing)	Jan-22: 50.7 Feb-22: 50.2 Mar-22: 50.5	Apr-22: 51.5 May-22: 54.4 Jun-22: 53.1	Jul-22: 49.0 Aug-22: 49.3 Sep-22: 48.4	Oct-22: 46.4 Nov-22: 47.0 Dec-22: 46.3					46.5 (Feb)				📉		
Automotive	Motor Vehicles & Parts Gross Output	-0.2	2.6	16.2	5.9	11.0	8.8	3.5	1.8	4.8	4.2	4.0		📈		
	Light Vehicle Production (units)	-0.3	-4.2	23.7	7.1	11.3	7.3	2.7	-0.4	-0.4	5.1	5.0		📈		
	Heavy Commercial Vehicle Production (units)	-2.4	3.8	33.5	7.7	0.5	2.8	-3.5	1.3	9.4	0.3	4.5		📈		
	Car Registrations (units)	-10.4	-15.1	1.6	14.0	11.3	16.2	2.9	-1.2	-2.6	6.7	13.2		📈		
	Heavy Vehicle Registrations (units)	0.8	0.2	7.8	6.4	-7.2	-0.1	2.0	1.7	3.6	-1.1	2.9		📈		
Chemicals (Chlor-Alkal)	Chemicals Industry Gross Output	4.2	2.0	-0.5	-0.1	-0.8	-0.3	-0.5	1.6	-1.4	-0.7	4.2		📈		
	Chemicals Investments									-4.7	-3.2			📈		
	EU Chlorine Production	-0.3	-10.9	-21.6	-20.6	-24.2	-6.5	9.0	26.2	-17.0	-2.0			📈		
	EU Caustic Soda Production	-0.1	-10.9	-21.6	-20.7	-24.2	-6.5	9.0	26.2	-17.0	-2.0			📈		
	EU CA Operating Rate	-0.1	-13.2	-23.4	-24.3	-25.1	-6.5	9.0	26.2	-17.4	-2.5			📈		
Manufacturing	EU Caustic Price Forecast EU/tonne ton (quarter over quarter)	32%	48%	111%	0%	34%	-29%	0%	21%					📈		
	Rubber & Plastics Gross Output	0.8	-0.3	-1.3	-3.5	-4.5	-4.0	-2.8	0.1	-1.1	-2.8	1.8		📈		
	Manufacturing Gross Output	3.9	4.0	2.6	0.5	-0.8	-1.1	-0.2	1.7	2.8	-0.2	2.0		📈		
Consumer Goods	Food & Beverage Gross Output	7.9	6.3	2.9	-3.0	-2.5	-3.5	-0.9	1.6	4.0	-0.8	2.2		📈		
	Domestic Appliances Gross Output	-4.5	-1.6	0.5	-1.1	2.7	2.0	4.2	10.0	-2.7	4.0	3.4		📈		
	Textiles Gross Output	5.6	2.2	-0.3	-3.2	-4.6	-0.9	-3.5	-1.1	-0.3	-4.3	-0.9		📈		
Aerospace	Aerospace Gross Output	20.5	17.4	5.6	-0.5	-4.0	-6.6	1.6	6.6	9.9	-0.5	6.9		📈		
Pharmaceuticals/ Medical	Pharmaceuticals Gross Output	15.8	8.3	8.5	12.0	2.4	4.5	3.0	-1.4	11.1	2.1	1.8		📈		
	Medical & Surgical equipment Gross Output	7.7	8.8	10.2	10.3	4.5	4.7	4.0	4.8	5.2	4.6	5.0		📈		
Construction	Construction, Non-residential Building Gross Output	3.1	3.1	3.1	3.1	-0.7	-0.7	-0.7	-0.7	3.1	-0.7	2.1		📈		
	Construction, Residential Building Gross Output	2.4	2.4	2.4	2.4	-2.4	-2.4	-2.4	-2.4	2.4	-2.4	3.3		📈		
Semicon	SEMI Europe Equipment Capex Spending	145.0	161.5	136.8	44.3	2.7	-15.5	4.3	52.0	110.6	3.2	36.0		📈		
	SEMI Europe Construction Capex Spending	134.8	77.1	5.7	-14.2	-33.8	-0.1	-25.5	-17.4	10.0	-20.6	87.9		📈		

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PTFE Macro Trends

Clean Energy & Environment	Urbanization	Evolution and Expansion of Health & Wellness	Communications & Connectivity
<ul style="list-style-type: none"> • Emissions regulations driving shift from internal combustion engine (ICE) vehicles to electric vehicles (xEV) and hydrogen fuel-cell vehicles creating growth opportunities for PTFE • Growth in net-zero emissions initiatives pushes hydrogen as an energy source. Alkaline-based water electrolysis is one of the technologies for hydrogen production, resulting in PTFE usage in tubing • Circular economy commitments driving countries to increase use of recycled material including PTFE 	<ul style="list-style-type: none"> • Increased focus on green urban mobility driving the use of recyclable materials alongside reduced noise and emission levels is expected to increase use of recycled PTFE • Investment in urban mobility strategies to adopt sustainable logistics, smart technologies and travel concepts • Micromobility emerging as transportation solution for urban mobility. Growing demand for two-wheeler vehicles through ownership and bikesharing delivers demand increase of PTFE in brake hoses 	<ul style="list-style-type: none"> • Growth in wearables with biosensors for health monitoring will drive demand increase in semiconductor • Growing need for filtration technologies to reduce viral transmissions expected to increase demand for filters using PTFE technology • Increases in minimally invasive technologies will drive adoption of non-stick pathways for medical device introduction into the body 	<ul style="list-style-type: none"> • Big data solutions to deliver automation and real-time tracking driving increased demand in semiconductor • Shift to remote-workforce and stay-connected movement drives increased usage demand for mobility-based technology • Shift to driverless vehicles will require connectivity between vehicles, geo-mapping, traffic signals, pedestrians and traffic signs – driving demand for semicon chips and data transmission capabilities

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Melts Macro Market Trends

Clean Energy & Environment	Urbanization	Evolution & Expansion of Health & Wellness	Communications & Connectivity
<ul style="list-style-type: none"> • Increased regulations for carbon and green house gas emissions will drive need for highly selective gas separation membranes leveraging melts technology • xEV will require more chips per car (+40%), driving more Melts demand • Semicon fabs are striving for zero emissions, lower carbon footprint, and net negative water usage, driving the need for more advanced processes and materials 	<ul style="list-style-type: none"> • Urbanization will drive increased needs for connectivity and data transmission, which will have a positive impact on melts performance solutions demand • Digitalization and edge computing driving demand for more powerful computing semicon devices which require high performance materials with low electrical loss and thermal dissipation 	<ul style="list-style-type: none"> • Increased need for remote medical consult will drive the use of FEP for LAN • Increasing investment in pharmaceutical and medical segment will drive increased volume for high-performance films to protect drug integrity and improve delivery to patients • Growing demand for non-intrusive medical procedures will drive adoption of polymer optical fibers and small form-factor medical devices 	<ul style="list-style-type: none"> • 5G, Internet of things, Edge computing, PoE will drive the demand for the communications, semiconductor and electronics markets • Transition to more home-based/remote work and lifestyle activities will have become the new normal, and is driving higher demand for Melts in semiconductor & electronics • Increased vehicle connectivity will drive strong demand for automotive ethernet cables with exceptional dielectric properties & flexibility

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PTFE Key Market & Regulatory Drivers – Growth & Focus Markets




 <p>Semiconductor</p> <p>Market Drivers</p> <ul style="list-style-type: none"> • Product purity • Miniaturization • Fab builds <p>Applications</p> <ul style="list-style-type: none"> • Air filtration • Liquid Filtration • Chemical storage 	 <p>Automotive (ICE & xEV)</p> <p>Market Drivers</p> <ul style="list-style-type: none"> • Emission regulation • Vehicle weight reduction • Vehicle efficiency <p>Applications</p> <ul style="list-style-type: none"> • Hydraulic brake hose • Filtration/venting 	 <p>Medical</p> <p>Market Drivers</p> <ul style="list-style-type: none"> • Invasive surgeries • Antistick solutions • Smaller tubing <p>Applications</p> <ul style="list-style-type: none"> • Lubricious liners • Introducers • Sheath/dilators 	 <p>Energy</p> <p>Market Drivers</p> <ul style="list-style-type: none"> • Decarbonization • Energy storage • Renewable energy <p>Applications</p> <ul style="list-style-type: none"> • Water electrolysis
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PTFE Key Market & Regulatory Drivers - Base Business, Protect Markets


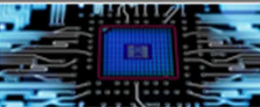


 <p>Aerospace</p> <p>Market Drivers</p> <ul style="list-style-type: none"> • Emissions regulation • Aging fleet of aircraft • Fuel efficiency <p>Applications</p> <ul style="list-style-type: none"> • Avionics wire & cable • Fuel hose 	 <p>Electronics</p> <p>Market Drivers</p> <ul style="list-style-type: none"> • Increase in smart technology • Product durability • Signal noise reduction <p>Applications</p> <ul style="list-style-type: none"> • Wire connectors • Wire insulators • Wiring boards 	 <p>Chemical Processing Industry</p> <p>Market Drivers</p> <ul style="list-style-type: none"> • PFAS Regulation • Process Innovation • Factory Builds and Upgrades <p>Applications</p> <ul style="list-style-type: none"> • Gas and Liquid Filtration Membrane • PTFE Lined Vessels, Pipe and Fittings
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Melts Strategic Markets - Focus

 <p>Communications</p>	 <p>Semiconductor</p>	 <p>Medical</p>	 <p>Electronics</p>
<p>Market Drivers</p> <ul style="list-style-type: none"> • Need for new LAN cable offering to address improved performance and patent expiration • Increasing high speed for communications, IoT, 5G <p>Applications</p> <ul style="list-style-type: none"> • CAT6A/PoE, CAT8 • Next Gen LAN cable • China plenum 	<p>Market Drivers</p> <ul style="list-style-type: none"> • IDRS* roadmap driving increased purity and particle requirements • Increasing data usage globally <p>Applications</p> <ul style="list-style-type: none"> • High purity tubing • Valves, pumps • Liners – pipes & tanks • Photomask Pellicle • Mold release films 	<p>Market Drivers</p> <ul style="list-style-type: none"> • Impact of COVID & demand for pharmaceutical films • Global investment in Pharma & Healthcare • Non-invasive surgeries <p>Applications</p> <ul style="list-style-type: none"> • Medical device cables • Catheters, tubing • Pharmaceutical films • Light guides 	<p>Market Drivers</p> <ul style="list-style-type: none"> • Demand for high speed electronic cables to support data consumption • High performance and high flexibility POF cables across multiple markets <p>Applications</p> <ul style="list-style-type: none"> • USB High speed cables • Polymer optical fiber • Consumer electronics • IoT devices





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Melts Strategic Markets - Protect

 <p>Aerospace</p>	 <p>Automotive</p>	 <p>Chemicals/O&G</p>	 <p>Industrial</p>
<p>Market Drivers</p> <ul style="list-style-type: none"> • Lightweight • Fuel efficiency • Connectivity <p>Applications</p> <ul style="list-style-type: none"> • Wire and cable • Film, sheet 	<p>Market Drivers</p> <ul style="list-style-type: none"> • Connectivity • Safety systems • Increased comfort experience demand <p>Applications</p> <ul style="list-style-type: none"> • Wire & cable • <u>Twinax LIDAR (EV)</u> • Tubing, hoses and bellows 	<p>Market Drivers</p> <ul style="list-style-type: none"> • Lower maintenance • Higher efficiency <p>Applications</p> <ul style="list-style-type: none"> • Wire and cable • Tubing, hoses • Valves, pumps • Liners, lined pipes, lined tanks 	<p>Market Drivers</p> <ul style="list-style-type: none"> • Automation • Lower maintenance <p>Applications</p> <ul style="list-style-type: none"> • Wire and cable • Film, sheet • Tubing, hoses • Coated/Lubricated part

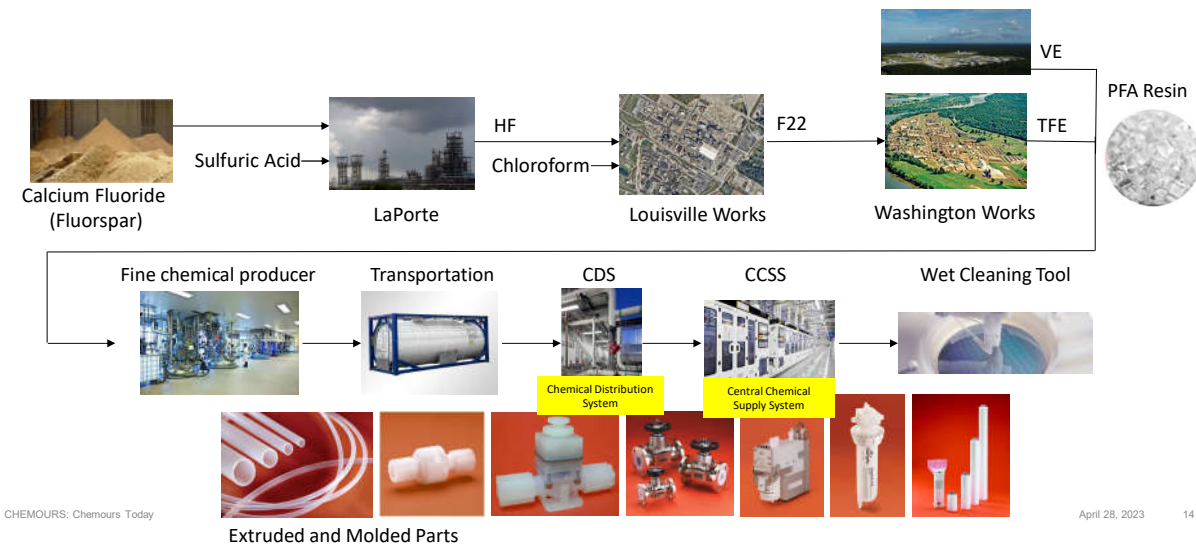
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Chemours™ PFA Materials in Semiconductor Fabrication Process



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How we translate our position into actions – responsible manufacturing



By 2030, we aim to reduce air and water process emissions of fluorinated organic chemicals by 99% or greater.

- In 2020, we successfully deployed our thermal oxidizer at our **Fayetteville Works** facility which destroys 99.999% of PFAS emissions and represents a \$100 million investment in emissions control technology
- At our **Dordrecht** facility in the Netherlands, we're investing €75 million in emissions control technology to achieve our 2030 goal to reduce all PFAS emissions by more than 99% compared to 2018 baseline levels.

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PTFE and Melts Global Technical Capabilities

Our global team of scientists has extensive experience in Teflon™ and Tefzel™ processing with expertise in material science, extrusion, molding and testing. We support customers in material innovation, process improvements, prototyping, application development, technical customer support.

NORTH AMERICA



Washington Works
Parkersburg, WV
Chemours Discovery Hub
Newark, DE

CHINA



China Technical Center
Shanghai, China

JAPAN



MCF
Shimizu, Japan

EUROPE



European Technical Center
Geneva, Switzerland

- Commercial wire and tubing extrusion equipment
- Foam, solid, multi-layer wire constructions
- Electrical Testing: Pair-in-the-air testing
- High-frequency co-ax testing capabilities
- Analytical services including microscopy, Tensile & Elongation, SEM, AFM, DSC, FTIR, MFR, Flex life
- Injection molding, compression molding



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Chemours Discovery Hub



THREE GREEN GLOBES

Demonstrates outstanding success in resource efficiency, reducing environmental impacts, and improving occupant wellness.

320,000

square-foot building

300+

employees & contractors

130+

individual lab spaces

3

Green Globes® certified



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Advanced Performance Materials: Mission and Vision

Solving the World's Most Challenging Problems

We know,
anticipate and
evolve with our
markets,
customers
and applications

We innovate
with speed,
applying science
to deliver
advanced
offerings

We
manufacture
safely and
responsibly
leveraging the
best available
technologies

We create the best possible outcomes for our customers, value chain partners, employees, and society by approaching everything we do with humility and a constant desire to understand, while embracing our commitment to sustainability and our shared values.

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