



A SAINT-GOBAIN BRAND

CoreTech Performance Film Solutions

TECHNOLOGIES AND CAPABILITIES

CoreTech



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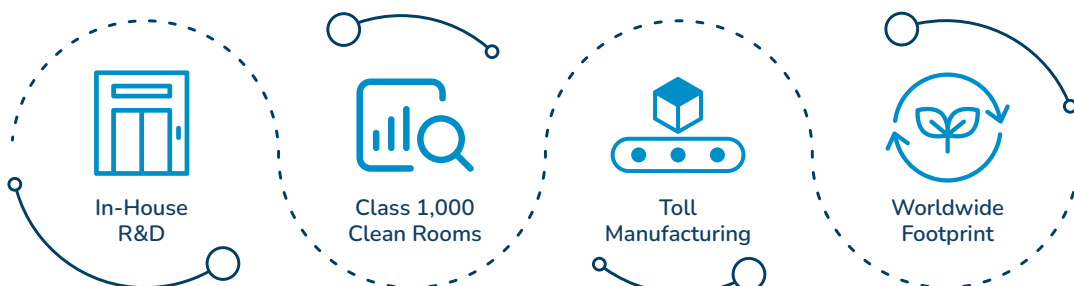
CoreTech Performance Film Solutions is a Saint-Gobain brand – a company with more than 350 years of experience in manufacturing.

CoreTech provides more than 50 years of experience in the thin films industry and our products are manufactured in ISO 9001:2015 QMS environments. We specialize in state-of-the-art wide-web roll-to-roll magnetron sputtering precision wet coatings, multi-film lamination, and clean room converting. Learn more about how our technologies and capabilities can bring your next project to life.

TECHNOLOGIES



CAPABILITIES



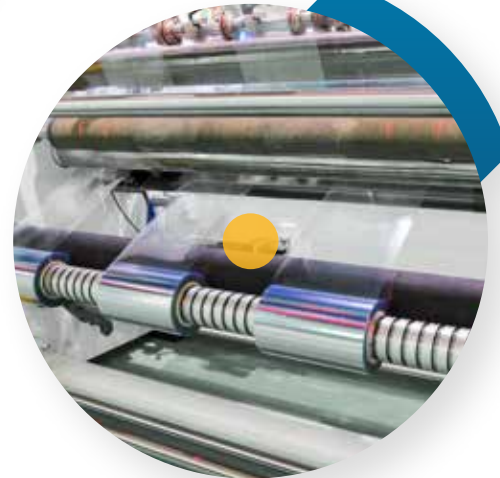
MAGNETRON SPUTTERING

Custom metalizing on a variety of substrates to create a micron-thin sputtered deposition to provide conductivity or solar control.



CONVERTING

Width and length converting options to create shorter rolls for easier handling, or longer jumbo rolls to enhance production efficiency.



COATING

Custom coating and lamination services on a variety of substrates with multiple chemistries available to provide hard coat, release, or adhesive properties.



TOLL COATING

Custom-tailored cost-effective coating solutions that take advantage of the Saint-Gobain Group's global footprint and over 350 years of manufacturing expertise.



CLASS 1,000 CLEAN ROOMS

Multiple class 1,000 clean rooms available to manufacture complex constructions, while maintaining control over potential defects through multiple coating passes.



RESEARCH & DEVELOPMENT

A vast array of testing services, coupled with dedicated R&D manufacturing lines allows rapid prototype and develop solutions with real-world testing to ensure long-lasting reliability.

WET-COATING AND LAMINATION



Wet-Coating and Lamination

CoreTech Performance Film Solutions has more than 50 years' experience in providing custom coating and laminating solutions for the most demanding applications.

Precise thickness control and clean room environments are available to coat both toll and customized manufacturing projects. Our team has expertise with optical clear coatings and adhesives including solvent based chemistries, UV curable acrylics, PSA, Urethane adhesives and Si release chemistries.

CAPABILITIES

COATING

- Gravure
- Slot Die (up to 74")
- Custom processes

LAMINATING

- Handle all roll size
- All gauges
- Width (up to 78")
- Clean room (Class 1000 and Class 10,000)
- Ability to strip liners / top sheet during lamination
- Multiple laminate webs
- In-line web cleaning

CONVERTING

- Width (up to 72")
- Class 1000 (up to 72")
- Handle all roll sizes
- Razor or shear cutting

OTHER VALUE ADDED SERVICES

- Material selection
- Pilot line prototyping
- Analytical support and testing

Typical Substrates

- Polyester (PET, PEN)
- Polyurethane
- Polyimide
- Styrene (PS, HIPS)
- Polyolefins (PE, HDPE, LDPE)
- Metal Foils
- Scrims
- Urethanes (TPU)
- Vinyl (PVC)
- Polycarbonate
- Fluoropolymer Films

Available Coatings

- Abrasion resistant coatings
- Anti-stats
- Coatings for ceramic or rubber casting
- Coatings for print transfer
- Hardcoats/Topcoats
- Matte Coatings
- Optical Coatings
- Optically clear adhesives
- Silicone release coatings
- Tints and color coatings
- Tinted adhesives
- Pressure sensitive adhesive
- Laminating adhesive
- Fluorosilicone

ROLL-TO-ROLL SPUTTERING



Roll-To-Roll Sputtering

We tightly control all aspects of the process to deposit precious metals or complex stacks onto thin polymeric substrates. Novel developments, such as our breakthrough PreciseAU™ technology, use 30% less gold while achieving the same surface resistivity levels — creating significant cost savings while maintaining performance.

Thanks to our 77" wide-web sputtering capabilities and patented vacuum deposition technologies, we can deposit any kind of metal including gold and palladium, alloys and oxides on a broad range of different substrates. For a full list of our capabilities, talk to one of our experts today.

PRECIOUS METALS

- Gold (Au)
- Palladium (Pd)
- Platinum (Pt)
- Silver (Ag)
- Alloys

CERAMIC/DIELECTRIC METALS

- AZO
- Copper Nitride (CuN)
- Indium tin oxide (ITO)
- Niobium Oxide (NbOx)
- Silicon Dioxide (SiO₂)
- Silicon Nitride (SiN)
- Titanium Nitride (TiN)
- Titanium Oxide (TiOx)

NON-PRECIOUS METALS

- Alloys (e.g. Copper-Chrome-Zirconium)
- Aluminum (Al)
- Chrome (Cr)
- Copper (Cu)
- Inconel 600
- Indium (In)
- Nickel Alloys (e.g. NiVa)
- Niobium (Nb)
- Silica (Si 90%, Al 10%)
- Stainless Steel (SS)
- Tin (Sn)
- Tin-Bismuth (Sn-Bi)
- Titanium (Ti)
- Titanium Alloys (e.g. Titanium-Tungsten)
- Tungsten (W)
- Zirconium (Zr)

SUBSTRATES

- Polyester (PET, PEN)
- Polyimide
- Non-woven
- Metal Foils
- Fluoropolymer Films

SUBSTRATE THICKNESS

1/2 mil - 15 mil (12μ - 375μ)

ROLL WIDTH

Up to 77" (1.95m)

ROLL DIAMETER

Up to 32"

MARKETS

AUTOMOTIVE



Paint Protection Film
Safety & Solar Control Film
Multi-layer Tear Off
EV Batteries
Anti Graffiti Films

ELECTRONICS



Display
5G/IGS Terminals
Photoreceptor
Copier Belt

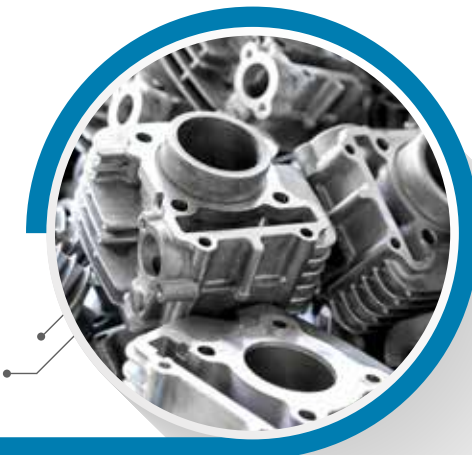
LIFE SCIENCES



Biosensor Gold Film
Medical Liners
Transdermal Patch Liners
Chemical Barrier Film
Tear Off Lenses



INDUSTRIAL



Process Aids
Casting Liners
Packaging
Currency Features

HABITAT



Window Film
Anti-Microbial film
Advanced
Solar Control

SPACE



Thermal Reflector Film
Metallized Kapton/PI
Soft Magnetic Films

GLOBAL R&D PRESENCE AND MANUFACTURING CAPABILITIES

CoreTech Films are manufactured around the globe, leveraging the worldwide R&D centers of Saint-Gobain and local manufacturing teams to develop and produce innovative custom film solutions.



Our global R&D team is dedicated to advancing cutting-edge technologies. Our team of expert material scientists and engineers can accelerate insights, prototyping, environmental testing, and analytical testing while focusing on specific, real application testing.

CoreTech, a Saint-Gobain brand, offers over five decades of expertise in roll-to-roll magnetron sputtering, wet coating, and lamination.



Contact your CoreTech Performance Film Solutions representative
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Saint-Gobain Research
and Development Centers



Saint-Gobain
Performance Film Solutions Sites

CoreTech

PERFORMANCE FILM SOLUTIONS

CoreTech Performance Film Solutions is a brand within Saint-Gobain – a company with more than 350 years of experience in innovative material design, development and manufacturing. CoreTech proudly offers over five decades of leadership in the thin films market, with products manufactured in ISO 9001:2015 certified QMS environments. Featuring state-of-the-art wide-web magnetron sputtering equipment, we are the experts in roll-to-roll sputtering, precision wet-coating and lamination, and converting. Learn more about how our technologies and capabilities can bring your next project to life.

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