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# **World-Class Pilot Facility**

We're proud to exceed industry standards for our rapid design capabilities. Appvion offers expert pilot coating and analytical lab services in our pilot facility at our Development Services Center. Our pilot coater simulates full-scale commercial coaters, offering formulation and integration opportunities for entirely customizable solutions. Together with our customers, we offer the opportunity to develop the best possible solution under realistic conditions, enabling speed-to-market.



### **Product Development**

In today's market, industry insights are essential. Appvion's research and development capabilities include product design, lab prototyping, custom testing, formulation, custom mixing, technical service, application development engineers, and others.

#### Pilot Coater

We apply aqueous-based coatings ranging from 1-20 gsm with multiple interchangeable coating head modules that mimic Appvion's and the industry's units to coat paper, paperboard, and film. Our pilot coater includes air floatation ovens, a chilling section, and steam decurling.





### Coating Kitchen

Chemistry is key for innovative coating solutions. Our pilot facility provides a fully operational coating preparation area for blending, cooking, filtering, deaeration, and testing.

### At a Glance

#### **SERVICES**

New Product Development Pilot Coater Trials & Testing Small-Volume Production Scale-up Services Toll Coating

#### **PILOT COATER SPECS**

Widths up to 32 inches Rewinder widths up to 40 inches Speed up to 1,500 FPM Diameters up to 59 inches Air floatation ovens Chilling section, steam decurling

# COATING APPLICATION METHODS

Coating stations to match each fullscale method: multi-layer curtain, rod, blade, flexo (offset gravure), twin HSM

#### **BASESTOCK SUBSTRATES**

2-24 mil fiber substrates 1-10 mil film substrates

#### FINISHING CAPABILITIES

Offline pilot calendar Widths up to 38 inches Slitting and rewinding

#### **ANALYTICAL LAB**

TAPPI and analytical chemistry laboratories

### **A Trusted Partner**

At the heart of our success is our Development Services Center team that possesses unparalled experience and technical expertise. Appvion has a long history of developing relationships that deliver world-class solutions. We continue to raise the bar with innovation and best practices to provide unique solutions. No matter the size of the project, our team is committed to delivering your vision and exceeding all expectations.





# **Experience**

As your partner, our expert chemists and scientists can assist in product development, including formulating, compounding, and mixing specialty coatings. Examples of our coating experience include:

THERMAL RESPONSIVE
CHEMICAL RESISTANCE
ENVIRONMENTAL RESISTANCE
DIGITAL RECEPTIVE
BARRIER PROPERTIES
SOFT TOUCH
ANTIMICROBIAL
PRESSURE RESPONSIVE
RECYCLABLE
HEAT SEALABLE
FDA-COMPLIANT
FLUOROCHEMICAL-FREE
RELEASE COATINGS
HEAT-ACTIVATED ADHESIVES
NON-CONTACT PRINTING



### Finishing Capabilities

Calendering, rewinding, and slitting rolls are available on site for product finishing. Rolls are rewound to make composite rolls of the various trial points or slit down to narrower rolls to fit a variety of converting operations.

### Analytical Lab

We provide the optimal analytical technology for chemical, physical, and performance attributes of product coatings and substrates. Analytical chemistry testing capabilities include XRF, FTIR, and SEM to analyze product layers and materials at the atomic or molecular level.





### **Product Analysis**

Our team intimately understands how molecules work, not just what they do, allowing each layer to be optimized. We can analyze basestocks, coatings, defects, debris, build ups, and coated and base substrate, surface and cross section views.

# Benefits of our Approach

Our development approach aims to create solutions that represent your project drivers, while addressing functional and performance requirements. The results provide you with a dependable and conclusive foundation for decision-making to support your process investments. Our team can assess product designs and competitive products, or resolve issues in raw materials, process, and performance.







Contact us today.

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