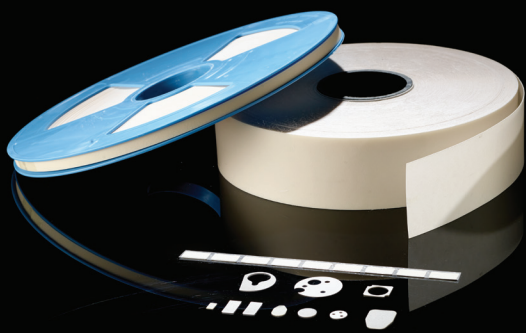


# Activ-Film™ materials

Flexible Solutions for Enhanced Product Protection



Are you looking for a way to efficiently enhance product stability without making it obvious to consumers?

**CSP Technologies, Inc. has the clear solution.**

**Activ-Film™** materials offer the ability to address a wide variety of product stability needs in ways that are invisible to the consumer and more efficient for the manufacturer. The films are ideal for use in applications ranging from foil pouches, stick packs and blister packs to substrates for diagnostic test strips.

Incorporating our patented three-phase **Activ-Polymer™** technology helps protect your products' integrity and ensures a positive experience for your consumer. The flexible materials can be formulated for moisture adsorption, gas absorption or the release of ClO<sub>2</sub> or other agents.

Providing design flexibility, Activ-Film™ materials are available in configurations like rolls, die cut pieces and adhesive-backed labels. Film thickness typically ranges from 0.3 to 1.2 mm, though CSP Technologies, Inc. experts can customize configurations to meet a wide range of size, shape, and packaging automation requirements.

The formulations can absorb a variety of gasses, including moisture, oxygen, and volatile organic compounds. Activ-Film™ materials can also release gasses such as carbon dioxide (CO<sub>2</sub>) and anti-microbial agents such as chlorine dioxide (ClO<sub>2</sub>) and AIT (allyl isothiocyanate).

For over 30 years, CSP Technologies, Inc. has been the global leader in delivering innovative desiccant and other gas scavenging solutions to enhance product stability, extend shelf life, and enable new packaging options for manufacturers. CSP Technologies, Inc. is a responsive, flexible partner committed to offering customers a single, reliable source for custom product design, development, and manufacturing.

## Benefits

- **Moisture adsorbing** – Available in a molecular sieve formulation (designed for lower relative humidity) or a silica gel formulation (ideal for applications prone to over-drying)
- **Oxygen scavenging** – These films do not need moisture and are effective at any relative humidity. CSP Technologies, Inc. oxygen scavenging film products can consistently reduce and maintain O<sub>2</sub> levels to below 1%
- **Combination films** – Available as an oxygen and moisture-scavenging combination, these compounds provide one solution for multiple sorption needs
- **Specialty formulations** – CSP Technologies, Inc. can produce films that absorb odors or volatile organic compounds. CSP<sup>SM</sup> customizable film products can also release aromas or antimicrobial agents such as chlorine dioxide and AIT (allyl isothiocyanate)

## Industries Served

- Pharmaceuticals
- Diagnostics
- Food
- Electronics
- Optics



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# About CSP Technologies, Inc.

CSP Technologies, Inc. is a leader in delivering innovative, high-quality product and packaging solutions that give customers a competitive edge and consumers a better product experience.

## Activ-Film™ materials

Flexible solutions for enhanced product protection

### Applications

- Foil pouches
- Stick packs
- Blister packs
- Transdermal devices
- Oral thin film (OTF)

### Specifications

Typical thickness ranges from 0.3 to 1.2 mm  
(custom options available)

