

Pillar Technologies

Advanced Technology Meeting Today's Most Challenging Applications

Serving the Packaging Industry for Decades

Founded in 1966, Pillar Technologies is recognized worldwide as a global manufacturer of induction cap sealing systems. The packaging industry has relied on Pillar's technologically advanced induction sealers to provide tamper evidence, leak protection, discourage pilferage, and extend the shelf-life of certain products.

Markets most familiar with induction sealing include pharmaceutical, nutraceutical, food, beverage, automotive chemicals, ag chemicals, health & beauty, and all liquid, powder, tablet & capsule filling applications. However, induction sealing can be used on a vast array of products outside of these markets. Please consult your Pillar rep for a free application evaluation.

Lab and Test Facility

Pillar Technologies is continually upgrading the Lab & Test facility by integrating top of the line equipment, allowing us to meet our customer's most demanding expectations. The facility is capable of evaluating customer samples on the actual equipment designs that would be provided in production. Operating at the same speeds as your filling line helps to establish more accurate equipment sizing and reduce the number of variables. In addition to customer samples, the complete research and development area was designed for testing existing products along with future designs.

Induction Cap Sealing Products and Patents

Pillar Technologies introduced solid-state induction cap sealing to the world in 1973. Pillar introduced the first transistorized air-cooled power supply for induction sealing in 1983. Our proprietary Universal Coil technology debuted in 1985. In 1992, Pillar brought the Foiler™, a water-cooled IGBT based sealer, to the packaging industry. Pillar introduced the 1kW Uni-foiler™ in 1997 - one of the world's first "waterless" induction cap sealers. Pillar expanded the Uni-foiler™ line with a 2kW and 4kW in 1999. Further expansion came in 2004 by introducing a 6kW system, currently the highest powered waterless sealer on the market today. Pillar will continue to add to this list of industry "firsts" for years to come.

Pillar is a Division of Illinois Tool Works Inc. (ITW)

As a division of ITW, Pillar Technologies has access to literally hundreds of products manufactured by over 650 decentralized business units. ITW is a multibillion dollar company with more than 90 years of history. By actively practicing teamwork with customers and suppliers, the men and women of ITW are creating competitively superior products, solutions and work environments.

Visit our corporate web site at www.itw.com. Member of the New York Stock Exchange: NYSE:ITW

Technical Service

Factory trained technical service and support advisors are on call 24 hours a day, seven days a week, at locations worldwide. For urgent matters, we've implemented a 24-hour service line: (262) 912-7294 for prompt technical attention or e-mail service@pillartech.com.

Please visit www.pillartech.com for newly released product information, application specific suggestions, the induction process, latest news and events, detailed technical support and much, much more.



Induction Sealing FAQ's

What is induction cap sealing?

Induction sealing is a method of hermetically sealing rigid containers to provide tamper evidence, preserve freshness, deter pilferage and prevent leakage while providing product integrity.

Why seal?

1. Tamper evidence - deter pilferage
2. Leak prevention
3. Increased shelf life - product freshness

Where any of the above conditions are preferred and/or mandated, Pillar Technologies can supply the right induction sealer to fulfill your requirement. Qualified Pillar personnel are always available to answer questions about induction sealing. Pillar has a fully functional lab to run your samples for inspection. Just give us a call.

How does it work?

In most applications, packagers purchase induction foil lined caps from a cap supplier. Cap styles of all varieties are available from these suppliers.

After filling and capping, the container passes under an induction coil which emits a varying electromagnetic field and the conductive aluminum foil liner begins to heat. The heatseal facing on the liner also heats and flows onto the lip of the container. When cooled, the heatseal facing creates a bond with the container resulting in a sealed product. This all happens in a matter of seconds.

Why waterless?

Simple. Waterless systems are less than one-half the size of previous generation water-cooled systems as we've eliminated the filters, hoses, pumps, radiators, flow switches, water and mess. And, the new waterless designs are practically maintenance free, saving you time and money.

How fast can you seal?

Sealing speed is largely dependent on the diameter of the foil, the style of cap, the speed of your conveyor, the power supply size, and the induction coil. Pillar will match up the proper equipment for your application.

Do kilowatts matter?

Yes. Kilowatt (kW) ratings are the only real measurable means of determining the exact system necessary to run your product. We encourage you to visit www.pillartech.com to learn more.

Can you induction seal without using a cap?

Yes, capless sealing is available. Since each capless operation is unique, Pillar addresses capless sealing on a case-by-case basis. We look forward to serving you.

Can you seal to glass?

Yes, however stability tests are recommended whenever using glass containers. Dry products are generally more forgiving than liquids in glass containers. We'd be happy to run your samples upon request.

Can I induction seal using a metal cap?

Yes, but all parameters must be closely monitored. Call the experts at Pillar if you're considering metal caps.

Can you overseal?

Yes. Overheating the foil causes damage to the seal layer and to any protective barriers. This could result in faulty seals, even weeks after the initial sealing process.

Why Pillar?

Technology, versatility, interchangeability, quality and dependability. Power supplies are independent from sealing coils for unsurpassed flexibility. And, our sealing coils can be repaired - a tremendous cost savings.

