Under the cap

What’s new with induction seals and liners

Bill’s Corner

Packaging post- 9/11

New Technology

Ultimate control with remote communications

See the Super Seal™ Deluxe in operation with the new “all-in-one” sealing head

“Reliable.”, “Easy to use.”, “Highly efficient.” These are just some of the words our customers use to describe Enercon cap sealers. We’re eager to add a few more expressions to their vocabulary at Pack Expo 2002.

Flexibility. Our exhibit will feature an operational Super Seal ™ Deluxe with microprocessor control. It will be equipped with our new “all-in-one” sealing head for the Super Seal™ series. Packagers who seal a wide range of containers will appreciate the flexibility of this sealing head. It easily seals standard child-resistant and continuous-thread caps from 28mm to in excess of 110mm.

Ultimate Control and Power. In addition, we’ll also be exhibiting our new remote communications package that harnesses the power of our microprocessor, and puts you in ultimate control of your cap sealer and inspection system. Its capabilities will be demonstrated with the powerful Super Seal™ Max.

Innovative. Come see our new and innovative capless induction sealing system that provides an alternative to conduction sealing.

All the action will take place at booth S-874. Be sure to stop by and pick-up our CD-Rom that includes new video footage and makes for a handy induction sealing reference.

Can’t make the show? Contact us at (262) 255-6070 or enews@enerconind.com for your free CD-Rom.

New application of induction technology offers efficient alternative to conduction sealing

At Pack Expo 2002 Enercon will include an exhibit on new concepts for capless sealing. The application of rotary, indexing and pressure -belt induction technology offers packagers new alternatives to conduction sealing. A combination of equipment, photos and videos will be available to explore customer options for induction sealing capless containers.

Induction benefits include “instant start-up”, clean operation and high speed capabilities. It also requires virtually no maintenance and is ideal for the food, dairy, chemical, beverage, bottled water, pharmaceutical and personal care industries.

Stop by booth S-874 for a first-hand look at this new system. Or call us today at (262) 255-6070 or enews@enerconind.com

Clean, efficient and high-speed induction sealing.
Induction seals for security, barrier and convenience

Developments in liner properties have made seals increasingly popular.

The right inner seal for your container gives consumers confidence in safety and convenience. Inner seals provide tamper evidence and a hermetic barrier. Emerging technological developments include new designs that improve safety from tampering and counterfeiting, new materials to improve barrier properties, and peelable structures that are easy to open for greater consumer convenience.

Safety

Consumer safety is an important consideration these days and seals have been developed that can provide tamper evidence while discouraging product pilferage and package counterfeiting.

Traditional tamper-evident inner seals are welded onto the lip of the container. This ensures that the seal must be destroyed to gain entry into the container. When the seal is removed a residue is left on the lip of the container to show evidence of tampering.

New holographic seals take tamper-evidence to a new level. Typically these seals are bonded to a pulpboard cap liner. The bond is sensitive enough to maintain the the integrity of the hologram when the cap is removed. The seals can have as many as seven holographic layers with items visible or invisible to the naked eye. They also may require the use of infrared or other holographic readers to detect information, text or logos.

Barrier

Packagers are always looking for ways to protect their product and increase its shelf life. Research and development for improving the barrier at the closure seal are ongoing. An inner seal barrier can improve shelf life and preserve product freshness. Inner seal materials must be compatible with the container for efficient fusion and adhesion. When properly applied, an inner seal forms a hermetic seal barrier.

Seals are predominantly made of treated foil bonded to various types of films. They are used with rigid containers and closures made from polyethylene (PE), high-density polyethylene (HDPE), polyethylene terephthalate (PET), polypropylene (PP) and polyvinyl chloride (PVC).

Some softer seal materials are ideal for their flexibility and compatibility with container materials but the trade-off may result in less barrier. Currently, several inner seal manufacturers are working on plastic seals that have as much barrier as foil without compromising container compatibility and seal integrity.

Polyethylene naphthalate (PEN) and some polyester derivatives are being considered for seal materials although these are currently in the experimental phase. Oxygen scavengers, too, are looking for commercial applications for closure liners and inner seals.

Convenience

New seal structures have also been developed to fill consumer convenience demands. Easy to remove induction seals are becoming predominant in the food and beverage industries. Some easy-peel inner seals have a half-moon shaped film tab attached to the top of the inner seal disc, facilitating easy removal of the membrane from the container in one clean piece. The key here is removing the seal without having to use knives or scissors.

New inner seal materials and structures continue to be developed and introduced. If you decide to make a change in your inner seal be sure to consider variations in cap torque and induction power with your suppliers.

Using any of these new products can be a positive step toward improved barrier and added consumer confidence by keeping products safe.

This article was adapted from a story written by Chris Barry for Food and Drug Packaging Magazine.

Industry suppliers

Enercon partners with leading suppliers to deliver cost-effective solutions to our customers. Below please find information on some of the leading induction seal manufacturers.

**Sancap Liner Technology (330)-821-1166**

Sancap provides a full range of heat seals and serves both large and small closure manufacturers and end users. Their low minimum order requirements are a specialty.

Sancap has 3 new venting heat seal liners including a universal, one-piece liner and two-piece liner seal. Vented liners prevent bottles from paneling due to altitude changes during packaging, shipping and from the use of oxygen scavengers. The construction allows transmission of oxygen through the paper with some barrier benefits.

**Selig Sealing Products (630) 953-1003**

Selig recently received AIB certification. This GMP program was implemented to ensure a quality manufacturing environment and to complement their focus on TQM and ISO 9001 certification.

Selig offers venting FOILSEALS, clean peel materials for pasteurization and retort up to 260° F., UV detectable inks and holograms for anti-counterfeit requirements, various foil thicknesses from .0005" to .002", multi-layered tamper-evident pull tab "Suretab" materials, foam backed wax bonded FOILSEALS, and conduction foils for capless applications.
The 9/11 terrorists attacks on the World Trade Center and the Pentagon have had a dramatic, if subtle, effect on the way products are viewed and packaged.

During the past eleven months, I have attended several seminars dealing with safety in food packaging. In each of these seminars, great pains were taken to emphasize the need for increased plant safety. Some of the suggested solutions were increased screening of employees as well as truck drivers delivering supplies, increased inspection of delivered goods, tighter control of plant access by employees and visitors and security fences around the properties.

All of this is well and good. However, the one aspect that none of these seminars addressed is how to protect the product once it leaves the plant? This is when it is most vulnerable.

If some type of tamper-evident method is not used, the product can easily be tampered with, either in transit or when sitting on the store shelf.

Since the 1982 Tylenol tampering incident, induction sealing has been recognized as one of the most effective means of providing tamper evidence. In addition to being relatively inexpensive and easy to install, it imparts additional advantages by providing a seal that is very difficult to remove and/or replace, as well as a hermetic barrier that provides oxygen and moisture protection.

Since ‘82, the FDA has mandated OTC packagers provide their products with at least two forms of tamper evidence. In an effort to discourage the FDA from mandating the same requirements to other packagers of goods for human consumption, a large number of companies have decided to use induction sealing as their means of tamper evidence.

Sealing is a popular choice because it's cost-effective, efficient and can be added to virtually any line. If you're reading this newsletter then you've already expressed an interest in induction sealing. But, be sure to consider the packaging safety of your non-induction sealed packages as well.

We can help you determine if induction sealing is a good fit. Please contact me at 262-255-6070 or enews@enerconind.com.

PMMI to hold conference on: Packaging Post 9/11

Enercon’s Bill Zito has been selected by PMMI to make an important presentation on “Packaging Security and the Role of Induction Sealing in a Safety Conscious Society.”

Bill will review the importance of providing packaging security for your products after they leave your facility. He’ll examine different means of providing tamper evidence and identify the reasons why packagers select induction seals as an effective means of tamper evidence. An explanation of how the induction sealing process works, insight to operational considerations, and potential limitations of the technology will also be presented.

Joining Bill will be Mickey Miramonti, and Jim Pitassi of Glaxo SmithKline who selected induction sealing as a means of tamper evidence when redesigning their popular Tums® package.

The presentation is scheduled for Wed., Nov. 6 at 11:30am - 12:15pm.

You can pre-register for the conference at www.packexpo.com.
Quick Tips

How to calculate conveyor speed in fpm

Many times packagers are familiar with their bottling requirements in terms of containers per minute (CPM). When Enercon sizes a cap sealing system for an application, we rely on the conveyor speed expressed in feet per minute (FPM).

For a quick estimate of fpm simply follow the formula below:

\[
\text{cpm/ # containers per foot} = \text{fpm}
\]

For example, if you can fit 5 containers within one foot of conveyor and you know your cpm is 100:

\[
100 \text{cpm} \div (5 \text{ cont. x 1 ft}) = 20 \text{ fpm}
\]

New Products

Add control to your process with Enercon’s new remote communications package

Incorporating your cap sealer into your line control system is easier than ever with Enercon’s new remote communications package.

Our Super Seal™ Deluxe and Super Seal™ Max sealers are outfitted with the capability to transmit operational and inspection data via an Ethernet connection to your PC or PLC. Enercon offers users maximum control with a host of options for remote monitoring and operational control of multiple cap sealers.

Our engineering team will work with you to customize the communications package to meet your requirements.

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Want more information? Fax us this page!
262-255-7784

Indicate the type of information you need in the space below and fax us this page. You can also use this page to update your mailing information.

2002 Industry Events

Pack Expo International
Booth S-874
November 3-7
Chicago, IL United States

Pride of Ownership

Congratulations to Enercon’s Technical Development Center for winning Germantown, Wisconsin’s Community Beautification Award.

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