



news release

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CTI's HPP Verification Technology Assists Food Companies with FSMA Compliance

High Pressure Processing Companies Face Upcoming FDA Deadlines

Colorado Springs, Colorado - - Food companies throughout the United States are facing compliance deadlines regarding the federal Food Safety Modernization Act (FSMA). Assisting in compliance with the upcoming guidelines is a new technology from Chromatic Technologies Inc. (CTI) that provides on-pack verification that the food products have been subjected to High Pressure Processing (HPP).

The FSMA is regulated by the U.S. Food & Drug Administration (FDA) and was signed into law in 2011 by former President Barack Obama. The regulations are being phased in from 2017 through 2022, and apply to food meant for human or animal consumption that is manufactured, processed, packed, or held without sale, including imported food.

FSMA addresses a changing global food environment in the United States:

- 15 percent of the U.S. food supply is imported
- There are more food types and varieties in the marketplace than ever before
- New hazards in foods not previously seen are emerging, and
- A growing population (currently about 30 percent) are especially “at risk” for foodborne illnesses

CTI’s High Pressure Processing Verification Technology was introduced in 2017 as a tool for companies required by FSMA regulations to provide *monitoring and verification* of the safety of food. CTI’s HPP ink technology provides an easy-to-use, affordable tool (fractions of a cent per package) to audit whether or not packages have been subjected to high pressure processing or severe heat abuse during transportation or storage.

CTI’s HPP Indicator ink can be printed directly on the package and color appears when the package has been subjected to 50,000 psi or greater. Traditional HPP machines deliver 87,000 psi for 3 minutes, so the HPP indicator identifies any packages that have bypassed the machine and serves as a high correlation to process completion.

CTI’s ink technology for HPP also contains anti-counterfeiting features to ensure a dishonest person hasn’t just simply printed an ink overlay on their packaging claiming an HPP indicator. CTI’s new process provides an easy visual confirmation of successful HPP.

In addition to HPP verification, the HPP indicator also detects severe heat exposure above 90° F. The combination of HPP verification and a transportation sensor for heat add a new level of security for food safety.

“The FDA is requiring small and mid-sized companies with under 500 employees to have an FSMA Food Safety plan in place by October 2017,” explained Jeffrey T. Barach, Ph.D., of Barach Enterprises LLC. “As part of a good FSMA plan, companies will need to demonstrate process prevention controls are monitored and to

verify safety steps. An on-pack HPP indicator, such as the HPP-heat indicator provided by CTI, helps satisfy those requirements.

“Additionally, this new technology will assist with a company’s ability to provide records to manage recalls and identifying corrective actions if there’s a breakdown in the HPP supply chain,” Dr. Barach continued.

CTI’s HPP Verification technology is used on food products such as meats, vegetables, juices, cheeses, hummus, guacamole, various sauces and much more.

About Chromatic Technologies Inc.

CTI is ISO 9001:2015 certified and is based in Colorado Springs, Colorado, U.S.A. Founded in 1993, CTI focuses on proprietary chemistry that *alerts, protects and informs in a surprising way* and includes materials that react to heat and cold, light and pressure, as well as anti-counterfeiting taggants. CTI is the world’s largest manufacturer of thermochromic materials for packaging, and exports to 52 countries. CTI has also recently been awarded new patents for thermochromic inks for metal decoration. The company’s latest innovation is its “Color Explosion” capability, which provides a dramatic increase in color palettes targeted to customer-driven needs such as communicating cold refreshment, flavor enhancement and engaging inspiration for settings reminiscent of the tropics, nature, modernism and nightlife. www.ctiinks.com

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