Project No: 1012 - Container Heat Penetration Model...



Campden BF

Modeling Tools for Thermal Process Variations vi 10 Coparatif (986 Girmonto Rife A DACAM Systems ALL ROYTS RESERVED 'Temp': Container here Reheartation. 'Temp': Container here Reheartation. 'Temp': Individe conduction and convective here than started revogal packaging from the start premary increasing. 'Polling's models to describe the Reheartation of the Comp': Individe the Anti-ordination of the Comp' and Polling's models use the first defined contained hereal process. Bits the 'Temp' and 'Polling's models use the first defined contained the mail process. Bits the 'Temp' and 'Polling's models use the first defined contained and a Compilation of the Comp' and Polling's models are the first defined process and the contained and a compilation of the processed contained to given with the exercise of all possible care in a compilation of the processed contained to the processed contained to the representation or warrely is given the contained to the representation or warrely is given to device the contained to the representation or warrely is given to device the contained to the representation or warrely is given to device the contained to the representation or warrely is given to device the contained to the representation or warrely is given to device the contained to the representation or warrely is given to device the contained to the representation or warrely is given to device the contained to the representation or warrely is given the variation of the representation or warrely is given the variation of the representation or warrely is given to device the contained to the representation or warrely is given to device the contained the representation or warrely is given the variation of the representation or warrely is given the variation of the representation or warrely is given the variation of the representation or warrely is given to device the representation or warrely is given to device the representation or warrely is given the restribution of the representation or warrely is given to device the r

Container Heat Penetration Model – 'CTemp'

Project Overview

CTemp is a commercially available program developed in conjunction with Campden BRI which is for calculating temperatures within packaged foods during thermal processing.

Using the finite difference calculation method *CTemp* can be used to predict temperatures and lethality's in foods that heat by conduction, convection or broken heating modes.

Process can be optimised against defined quality criteria (e.g. browning reactions) by adjusting the retort profile to maximize or minimize the calculated quality parameter.

Process deviations can be assessed retrospectively, allowing informed decisions about the destination of batches of product. "What-if "analysis to simulate the worst likely production conditions; makes process establishment safer and less time consuming.

Calculation of energy usage and CO2 produced during process cycles



Products packaged in metal cans, glass jars, pouches or trays.

Processing media such as steam, steam/air, and water immersion or raining water.

Batch or continuous processes for packaged foods in retorts or hydrostatic and reel and spiral cookers.

For more information contact www.campdenbri.co.uk





