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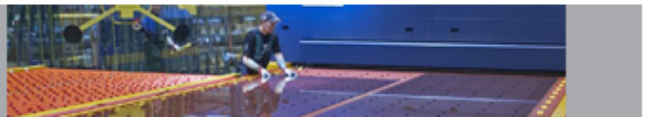
Temperature Profiling News
October 2013

DATAPAQ
A Fluke Company

Feature



Video Highlight

Revolutionize Your Oven Profiling Strategy

Temperature profiling gives engineers power over the process. Identify and correct hot and cold spots, reduce fuel costs by increasing line speed and/or lowering oven temperatures, prove adherence to customers' specifications, and prove quality without the need for destructive analysis techniques. Here's an inside look at the systems and procedures. Oven Profiling

Application Note

Automotive Oven Temperature Profiling: Key to Paint Shop Performance

When choosing a new car, a key decision for many is the color. The cosmetic appearance of the paint is critical to the visual quality. This paper discusses the use of oven temperature profiling as a technique to help maximize the quality of paint and material cure operations. Automotive Painting App Note

Case Study

Flat Glass Tempering in Low Height Furnaces

Tempering sheet glass is a process that needs to be carefully measured and controlled. Low emissivity and other surface coatings make traditional pyrometry problematic. A manufacturer of automotive and architectural glass needed through-process temperature profiling in the face of extremely low clearances and high process temperatures. Glass Tempering

Frequently Asked Questions

Temperature Profiling: Understanding the Basics

When employing heat treatment in manufacturing, the critical information is the temperature of the product as it is taken through the heating process. Achieving the correct temperature – and for the correct time – can significantly affect the quality of the product, whether it be the correct cure on a painted car body or the physical properties of a heat-treated aerospace part. Find out more about Temperature Profiling

Thermal Profiling in High Temperature Heat Treatment: Placement and use of sensors, thermal barriers, data loggers, and profiling software in high temperature heat treatment applications. Watch the video

Product Literature

Glass Tempering Datasheet: The Furnace Tracker® System accurately measures temperatures from a glass sheet as it passes through the tempering furnace. Download the brochure

From the Resource Library

Datapaq Application Success Stories e-Book: More than a dozen customer case histories about the challenges of dealing with temperature-based processes. Includes automotive air bag silicone coating cure verification, curing coatings in electric motor manufacturing, drying contact paste in solar cell manufacturing, and vapor phase soldering. View the e-book

TB7500 Series Ultra Low Height Thermal Barriers for Glass Tempering

The TB7500 series has been designed using processes and materials developed for use in protecting F1 racing cars from the heat of the engine. The smallest of the barriers provides 10 minutes protection at 650°C/1202°F in a package only 29 mm (1.3 inches) high. For the first time, this enables users to profile the "shake and bake" tempering furnaces used in flat glass. Low Height Thermal Barriers

MicroMag Thermocouple for Automotive Paint Monitoring

Working with key automotive paint operations, Datapaq has extended the operating capability of the popular MicroMag thermocouple. A new encapsulated magnet design allows reliable, direct use during production and eliminates any risk of magnet damage or loss when removed from a cured surface. Its low thermal mass provides response characteristics that challenge exposed junction thermocouples. MicroMag

Head Office Adds High Performance Test Facilities

Datapaq has moved its head office to custom designed premises in Cambridge, UK. The office includes Engineering, Product Marketing, Operations, Tech Support, and Customer Support. In addition, a state-of-the-art test furnace and workshop can replicate customer processes even more exactly. The furnace features quicker ramp-up rates and higher temperature test limits. Head Office and Test Facilities

Events

November 12-15, 2013
Productronica

Munich, Germany
Hall A4/508
Learn about the latest temperature profiling solutions for manufacturing processes

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