



Synthetic sponge maker relies on Siemens temperature transmitters in manufacturing process

Situation

Cellulose derived from wood pulp is used for manufacturing synthetic sponges. It is soaked in water and mixed with chemical softeners until it becomes jelly-like. It is put into a mixer along with sodium sulphate crystals, cut hemp fibers, and dye, and then blended until the ingredients are thoroughly combined.

The mixture is then poured into a mold and heated until the cellulose mixture "cooks". As it cooks, the sodium sulphate crystals melt and drain away through openings in the bottom of the mold, leaving pores in the finished sponge. As the cellulose mix cools, it becomes a hard, porous block.

Challenge

Accurate temperature measurement and tight temperature control is critical to the sponge manufacturing process. If the temperature is not

controlled properly, an entire batch can be ruined, resulting in a loss of thousands of dollars. A customer that manufactures synthetic sponges needed to upgrade their outdated control system and instrumentation for the manufacturing process and quality control.

Solution

The local Siemens representative recommended a solution that included temperature transmitters, electromagnetic flowmeters, and valve positioners. After replacing their older automation and manual controls, which were a mix of other manufacturers' instruments, the customer has reported an 80% increase in production efficiency by using the Siemens solution.

Siemens SITRANS T temperature measurement devices are highly accurate, reliable, intrinsically safe, and connect to a wide range of signal sources. The SITRANS T temperature transmitter portfolio includes sensors, transmitters for head, rail and field mounting.

Process Instrumentation & Analytics

www.usa.siemens.com/pi

SIEMENS

Benefits

- Ease of use: Plug and Play setup
- Reliable performance comes from superior, field-proven design
- Greater value in the solution, based on pre-and post-sales support
- Convenient communication using HART®, PROFIBUS PA, or Foundation Fieldbus
- Greater safety and convenience from programming flexibility

About Siemens Process Instruments

The SITRANS T products for temperature measurement can handle the demands of most demanding applications, whether for high or low temperatures or in hazardous areas.

Choosing the right flowmeter for the right application can dramatically improve your bottom line. No matter the industry, Siemens offers a comprehensive selection of electromagnetic, coriolis, ultrasonic, and vortex flowmeters suitable for measuring all kinds of flow.

When it comes to precision control of valves in different industries and applications, the SIPART PS2 valve positioner is the best choice, due to its robust performance, quality control, and ease-of-use. The integrated microprocessor means that SIPART PS2 instrument offers clear advantages over conventional valve control products.



SITRANS T family of instruments for reliable temperature measurement

Siemens Industry, Inc.
Industry Automation
3333 Old Milton Parkway
Alpharetta, GA 30005

1-800-241-4453
info.us@siemens.com

www.usa.siemens.com/pi

Subject to change without prior notice
Order No.: PICS-00052-0910
All rights reserved
Printed in USA
©2010 Siemens Industry, Inc.

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.