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Sensor Paper Ensures Even Heat Distribution in Heat Sinks

Allows engineers to quickly check and correct surface temperature variations

Since thermal management is critical to heat sink performance, testing with Thermex temperature distribution film has become a useful design and assembly quality control check. Thermex, from Sensor Products Inc., is an economical thin sensor film that can be used in virtually any application to test and monitor heated contacting surfaces from 200° to 300°F (93° to 149°C). It can be used alone or in conjunction with Fuji Prescale pressure-indicating film offered by Sensor Products Inc.

Upon exposure to heat, Thermex changes color instantly and permanently to reveal temperature distribution between any two contacting surfaces. The intensity of this color change directly relates to the temperature it was exposed to, enabling Thermex to reveal high or low temperature zones and minute surface variations.

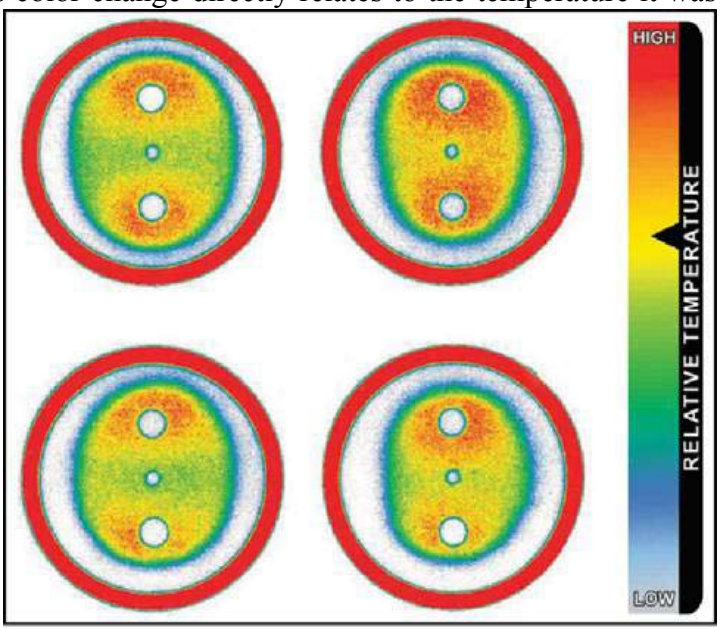

Figure 1: Thermex temperature distribution film enhanced by Topaq analysis

Invasive intolerant environments and interfaces that aren't easily accessed with traditional temperature indicators and infrared thermometers are among the candidates for Thermex.

Although the Thermex used for testing may be saved for archival purposes, its low cost renders it inherently disposable. A sheet can be easily trimmed for smaller applications or custom cut to defined dimensions.

New applications for Thermex are being discovered daily. Common applications include heat sealing, lamination and press, flat web-type machines used in converting, ultrasonic welding, heat sinking, and clutch or brake interfaces.

Post processing analysis of Thermex is available for temperature fluctuations that need to be analyzed with great precision. For a complimentary sample of Fuji Prescale film or more information about Thermex, call Sensor Products Inc. at (973) 884-1755, or visit sensorprod.com/thermex. Many items from Sensor Products Inc. are available online.