



A Thermoscale 200C

FUJIFILM



Description

THERMOSCALE is a revolutionary new film that enables anyone to measure heat distribution easily by observing the variation in density and hue.

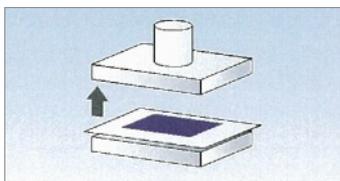
THERMOSCALE uses special technology that regulates color intensity and hue in accordance with heat value to generate a highly accurate depiction of heat values over a wide range. THERMOSCALE is ideal for applications involving analysis of heat distribution during press, roll, and laminate processes and within drying ovens.



Easy to use with a single sheet,
ideal for a wide range of applications.
Inquire now

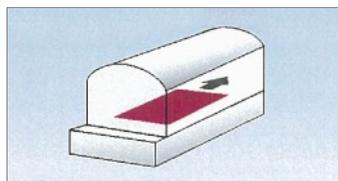
Applications

Press



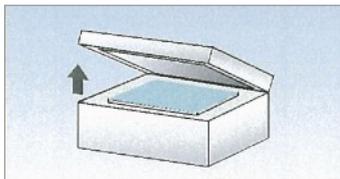
ACF bonding, heat seals, Li-ion batteries, solar panels

Oven



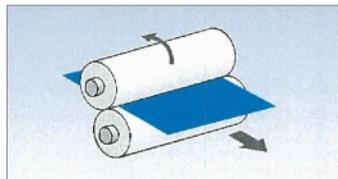
Drying oven, baking oven, vacuum film production, measuring surface heat distribution on parts

Laminator



PCB, solar panels, protective film laminating

Roll



Nip roll, calender roll, printing roll, printer cell

Features

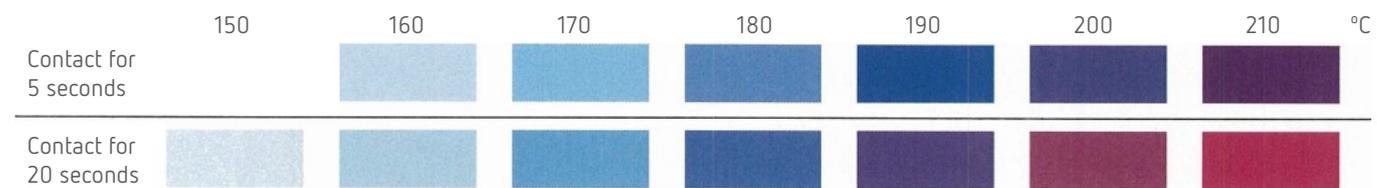
Easy to use	No measuring equipment required. Simply cut to size and insert as required.
Fast results	No need for multi-point measurement: one sheet provides all the required information
Simple to understand	Heat distribution is illustrated graphically via color depth and hue patterns
Quality	Replaces point measurement with plane measurement to enable quality monitoring over the entire working surface. Plane measurement also boosts quality standards by identifying localized flaws and areas where further point
Efficiency	No special equipment needed; just a single sheet of THERMOSCALE. Reduces time required for testing, particularly time taken to design experimental conditions during the development phase.
Productivity	Simplifies the process of analyzing heat distribution to identify and prevent potential heat-related faults, thereby improving yield. Ideal for thermal defect analysis which speeds up troubleshooting and boosts productivity.

How to use - Thermal press

- 1** Cut THERMOSCALE film to the required shape/length and orient the film so that the heat source contacts the non-glossy surface
- 2** Operate the machinery in the normal manner
- 3** THERMOSCALE changes color in accordancy with the heat distribution
- 4** Remove THERMOSCALE and observe the color patterning from the glossy side of the film.

Properties

The color varies according to the temperature and duration of the heat to which the film is subjected. The shorter the duration is, the paler and the more bluish the color is. The longer the duration is, the more saturated and the more reddish the color is. As the color will also change depending on other factors such as the material measured, its thermal properties, contact pressure and air currents, please read the notes below when using this product.



Note: The above chart is a sample based on the results of a test performed at Fujifilm. Before using Thermoscale, create a similar chart that is based on the actual measurement conditions

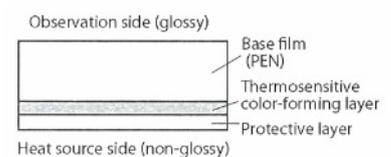
Specifications

Temperature range	150°C-210°C* (contact time = 5-20 sec.)
Size	270 mm × 200 mm
Sheets	Five
Thickness	0.09 mm

* Actual temperature range depends on conditions of use including contact time, materials, pressure and air flow

Structure

The film base is coated with a thermosensitive color-forming layer and a protective layer.



This is the non-glossy surface that comes into direct contact with the heat source. The glossy side of the sheet is used to analyze the color patterns that represent heat distribution.

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.