

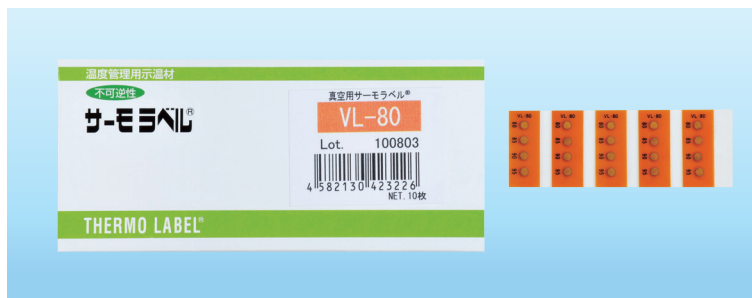
Irreversible

THERMOLABEL® for Vacuums RoHS Compliant

POINT!! Check temperature in 1Pa to normal pressure environments at a single glance

Features

- Temperature monitoring labels for use in 1Pa to normal pressure environments.
- Monitor temperature without wires or power simply by affixing the label to the area where temperature is to be monitored.
- The temperature-indicating part changes color irreversibly from pale yellow to black when the specified temperature is reached, allowing the temperature history to be traced.
- Measurements with color-change accuracy of $\pm 2-4^{\circ}\text{C}$ are possible even under reduced pressure.
- Labels are made using low-outgassing materials to reduce the release of outgas.



* We can see the area has been heated to around 190°C.

Type	Temperature combination°C	Before color change	After color change	Color-change accuracy	JAN code
VL-40	40—45—50—55	Pale yellow	Black	$\pm 2^{\circ}\text{C}$	4582130423202
VL-60	60—65—70—75	Pale yellow	Black		4582130423219
VL-80	80—85—90—95	Pale yellow	Black		4582130423226
VL-100	100—105—110—115	Pale yellow	Black		4582130423233
VL-120	120—125—130—135	Pale yellow	Black		4582130423240
VL-140	140—150—160—170	Pale yellow	Black	$\pm 4^{\circ}\text{C}$	4582130423257
VL-180	180—190—200—210	Pale yellow	Black		4582130423264

10 labels per box

Caution on Use

- Do not cut or modify the labels in any other way before use as it may affect color-changing performance and durability.
- Use only in temperatures up to 230°C. Use in temperatures above 230°C could lead to unanticipated levels of outgassing.
- Remove labels quickly with tweezers or a similar utensil once the area has cooled to around room temperature (20°C). Labels are harder to remove once the temperature drops below room temperature or if left affixed for a long period of time. After removing the label, residual adhesive on the surface where it was affixed can be wiped off with paint thinner.
- For more details, refer to the technical brochure for Thermo Label® for Vacuums.

Storage and Use-by Date

- Products should be stored in a cool, dark place under 30°C and used within 1 year of purchase.

Applications

- Temperature monitoring for etching, vacuum deposition or manufacturing processes



Thermo Label® for Vacuums color-change temperature measuring device (1Pa to normal pressure)