



the smart way to measure time & temperature

## Product Specification

### Timestrip®12 Month RT (BOB - Button on Back) TS-121



#### General:

Each Timestrip® indicator is a small, self-adhesive label that can be attached to or integrated into a product, package or carrying card\*. It monitors elapsed time and indicates when key time markers and a pre-defined elapsed time have been reached. The indication of elapsed time is irreversible. (\*see adhesive specification in Appendix 1 below for further details.) Indicators can be made for many different temperature environments, but each product is calibrated for use in a specific temperature environment.

Timestrip®12 month is calibrated for use at room temperature. Using this product in other temperature environments may affect its performance.

#### How to use:

Timestrip® indicators are completely inert prior to activation and can be stored at room temperature.

To activate fully squeeze the button and within 2 minutes a red activation line will appear. If not, immediately re-squeeze the button fully. When the activation line appears, the indicator is armed and ready to use. The red dye will continue to progress until the maximum elapsed time has been reached.

#### I) Performance Specifications:

- Run-Time: 12 month (365 days)
- Calibration temperature: 22°C ± 1°C
- Accuracy: ± 15 % in time under isothermal conditions
- Progress Isotherms: See Fig. 1
- \*Activation Force: 5 ± 2 kgf

\* Activation is applied by firmly squeezing the button (In case the activation line doesn't appear within 2 minutes re-squeeze the button).

#### II) Product Specification:

- Button Position: Button on Back Layer (BOB)
- Colour of Progressing Front: Red
- Adhesive: 2641 Finger-lift 15/19 mm
- Graphics: See Fig. 2
- Product drawing: See Fig. 3
- Usage: The usage of the product in any assembly or production line must be agreed upon in advance, as it may alter performance specifications.

#### III) Product Construction:

The indicator is constructed of a polymeric assembly multilayer and aluminium-plastic laminate. It encapsulates coloured oils.

\* All materials are non-toxic.

#### IV) Packaging & Presentation:

Bag of 500 units

#### V) Storage Conditions (un-activated):

- Store in cool dark environment
- Recommended: 22°C/72°F at 20-80% RH
- Please note that before activation, the product can tolerate short term exposure during transit (hours or a few days) to temperatures in the range -30°C to +55°C. However, long term storage should be under recommended conditions.

#### VI) Shelf-life:

- 3 Years from date of manufacture (MD). The MD is stated on each pack

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