Printed temperature sensitive labels for products in cold chain

Fact Sheet

Project Information

T-Sense Cold

Grant agreement ID: 101009642

DOI
10.3030/101009642

Start date
1 February 2021

End date
30 November 2023

Funded under
PRIORITY ‘Societal challenges

Total cost
€ 1 574 000,00

EU contribution
€ 1 101 800,00

Coordinated by
MYSTERIA COLORUM-MYCOL, PROIZVODNJA, TRGOVINA IN STORITVE, DOO
Slovenia

Project description

Temperature-sensitive labels with permanent colour change

Producers are losing as much as 10 % of their products in cold chain transportation due to lack of monitoring and control of product temperature – and this figure does not account for the lower quality of improperly stored products. A solution is needed to reverse this trend. The EU funded project T-Sense Cold will develop an irreversible, temperature sensitive, colour changing label to monitor the temperature of each product. This will be applied to the packaging and will permanently change from white to a deep colour state above the activation temperature to inform cold chain stakeholders that products are dangerously overheated. The label comes with
Fields of science

- engineering and technology > materials engineering > colors
- engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > sensors > optical sensors
- engineering and technology > materials engineering > composites
- engineering and technology > other engineering and technologies > food technology > food safety
- engineering and technology > chemical engineering

Keywords

- Temperature-sensitive labels
- irreversible temperature indicator
- smart ink
- cold supply chain
- activation temperature
- fresh food
- waste reduction
- circular economy

Programme(s)

- H2020-EU.3. - PRIORITY 'Societal challenges
- H2020-EU.2.3. - INDUSTRIAL LEADERSHIP - Innovation In SMEs
- H2020-EU.2.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies

Topic(s)


Call for proposal

- H2020-EIC-SMEInst-2018-2020

See other projects for this call
Sub call
H2020-EIC-SMEInst-2018-2020-4

Funding Scheme
SME-2 - SME instrument phase 2

Coordinator

MYSTERIA COLORUM-MYCOL, PROIZVODNJA, TRGOVINA IN STORITVE, DOO

Net EU contribution
€ 1 101 800,00

Address
Hajdrihova 19
1000 Ljubljana
Slovenia

Region
Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 472 200,00

EC signature date 17 September 2020
Last update: 23 June 2023

Permalink: https://cordis.europa.eu/project/id/101009642

European Union, 2023