



VINCOTTE

2BR-30e-c

CERTIFICATION

Environmental Conformity Marks

## Significance of OK biobased

Controlling our CO<sub>2</sub> emissions is a major stake in our future. Such control should manifest itself as much in a reduction of our emissions as in a change in the nature of these emissions.

### The short and long carbon cycle: what is the difference?



To better understand the nature of what is at stake, here are a few explanations concerning the phenomena currently competing in nature.

Leaves that fall from the trees in autumn emit CO<sub>2</sub> as they biodegrade, which was absorbed the previous spring by the tree in order to grow and produce its leaves.

This cycle of emission and absorption of CO<sub>2</sub> has been ongoing since time immemorial and has very little effect on the average level of CO<sub>2</sub> in the atmosphere.

The “C” in CO<sub>2</sub> stands for carbon, and here we talk about “young” or contemporary carbon.

By contrast, all CO<sub>2</sub> emitted through the combustion of fossil resources (e.g. petrol, gas and plastics) always results in an increase in the average quantity of CO<sub>2</sub> as it is not compensated by an increase in our planet’s capacity to absorb this CO<sub>2</sub> excess.

It is this systematic and continuous increase that poses the problem. It is therefore a very long cycle, as millions of years go by between the absorption and emission of the CO<sub>2</sub>. This carbon is called “old” or fossil carbon.

### How do biomaterials fit into this story?



For several years now, many companies have been marketing biomaterials manufactured partially or wholly from young carbon of plant origins.

The CO<sub>2</sub> produced at the end of the biomaterial’s life (by biodegradation or burning) corresponds to that absorbed by the plants of which the biomaterial is made.

The cycle is still short, even if it can span over several years, being the time it takes for the biomaterial to fulfil its function (as a bag, cover, or car or washing machine component) and then be destroyed.

### Major clean-up of the numerous declarations

The absence of European standards concerning testing methods and records leads to a multitude of declarations that are difficult to compare.

To remedy this situation, Vinçotte has developed an evaluation tool that makes it possible to determine in a harmonised, precise and reproducible way the share of “young” and “old” carbon. This works both for base materials and for finished products.

### The OK biobased logo: Vinçotte’s clear and simple message



While precise values, printed on a certificate, are indispensable in business-to-business (B2B) relations, the general public needs a clear message that is easily understood.

This business-to-consumer (B2C) communication relies on a four-star logo.

The more stars, the higher the content of young carbon.

In certain cases the biobased percentage may be attached.

### The OK bio-based certificate: Vinçotte’s clear and simple approach

The evaluation of base materials is carried out by a series of analyses aimed at determining the share of young carbon and of organic carbon.

The evaluation of finished products using certified base materials is calculated and validated by a confirmation method.

Do not hesitate to contact us at [okbiobased@vincotte.be](mailto:okbiobased@vincotte.be) for any further information.



**VINÇOTTE nv**

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium

VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB

Leuvensesteenweg 248 H • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 50 • [brussels@vincotte.be](mailto:brussels@vincotte.be)