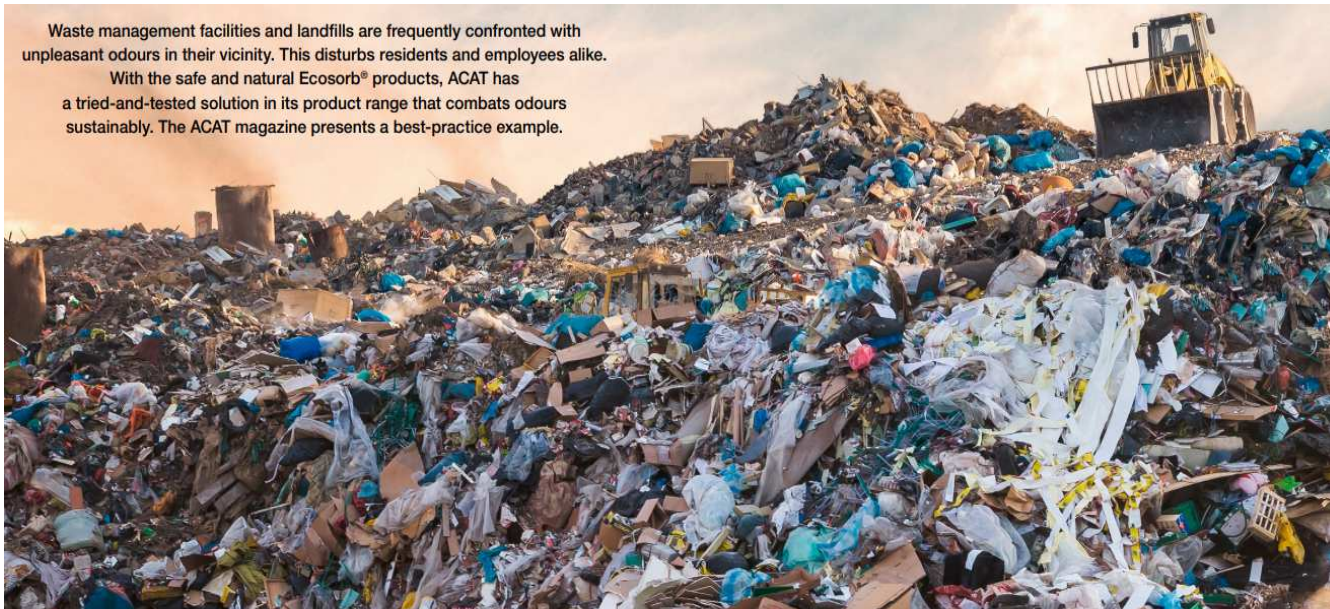


## SO THAT THE NEIGHBOURS WILL NO LONGER COMPLAIN ABOUT THE STENCH

Waste management facilities and landfills are frequently confronted with unpleasant odours in their vicinity. This disturbs residents and employees alike.

With the safe and natural Ecosorb® products, ACAT has a tried-and-tested solution in its product range that combats odours sustainably. The ACAT magazine presents a best-practice example.



The setting is a large waste management facility on the outskirts of a major city in Western Europe. The plant had a significant odour problem. Complaints from local residents were increasing, and employees were also complaining more and more about the stench. The plant manager saw the need for action and explored the various options available on the market. After a comprehensive analysis of the alternatives, he contacted ACAT, the official European distributor of OMI Industries' Ecosorb® product line. "We then worked quickly to find the best and most cost-effective solution for our customer," says Luca Faggionato of ACAT airtech in Milan.

As a first step, ACAT installed a high-pressure system at the site's entrance gate, through which the bulldozer enters the facility. "Using a sensor, we programmed the machine to

spray Ecosorb® as soon as the gate opens. This effectively neutralises the escaping odours." To treat the outdoor waste piles, ACAT has also installed a high-pressure system with a fan on each bulldozer. This can be switched on during waste treatment to neutralise the odours.

### Extensive measuring

To measure odour emissions, air samples were taken at various distances from the odour source. A local laboratory then analysed the samples. "Based on this, we selected the most suitable Ecosorb® product," says Faggionato. ACAT then installed three control systems: one at the entrance gate and two on the bulldozers. The aim was to reduce odour emissions by 50 per cent. Measuring began in the summer, when higher temperatures also

## SO THAT THE NEIGHBOURS WILL NO LONGER COMPLAIN ABOUT THE STENCH

intensified the odours. The dosage of Ecosorb® was 0.5 l/h. An investment in reputation. The results are extremely positive, reports Luca Faggionato: “Our customer is very satisfied with our solution, from the user-friendliness to the effectiveness of Ecosorb®. The number of complaints about unpleasant odours has decreased significantly, as have the odours themselves – and all this without the use of aggressive chemicals. So, it wasn’t just an investment in the quality of life for local residents, but also in the company’s reputation.”

### Experts with many years of experience

ACAT’s experts have been working intensively to combat unpleasant odours for many years. “The odour problem in Europe is getting worse every year. Now there are also corresponding laws that restrict emissions. Odours are a problem that affects all sectors, especially those close to residential areas. At ACAT, we can draw on years of experience working with customers in the asphalt, plastics and water treatment industries, and the waste management industry also benefits greatly from this,” explains Faggionato (ACAT airtech).

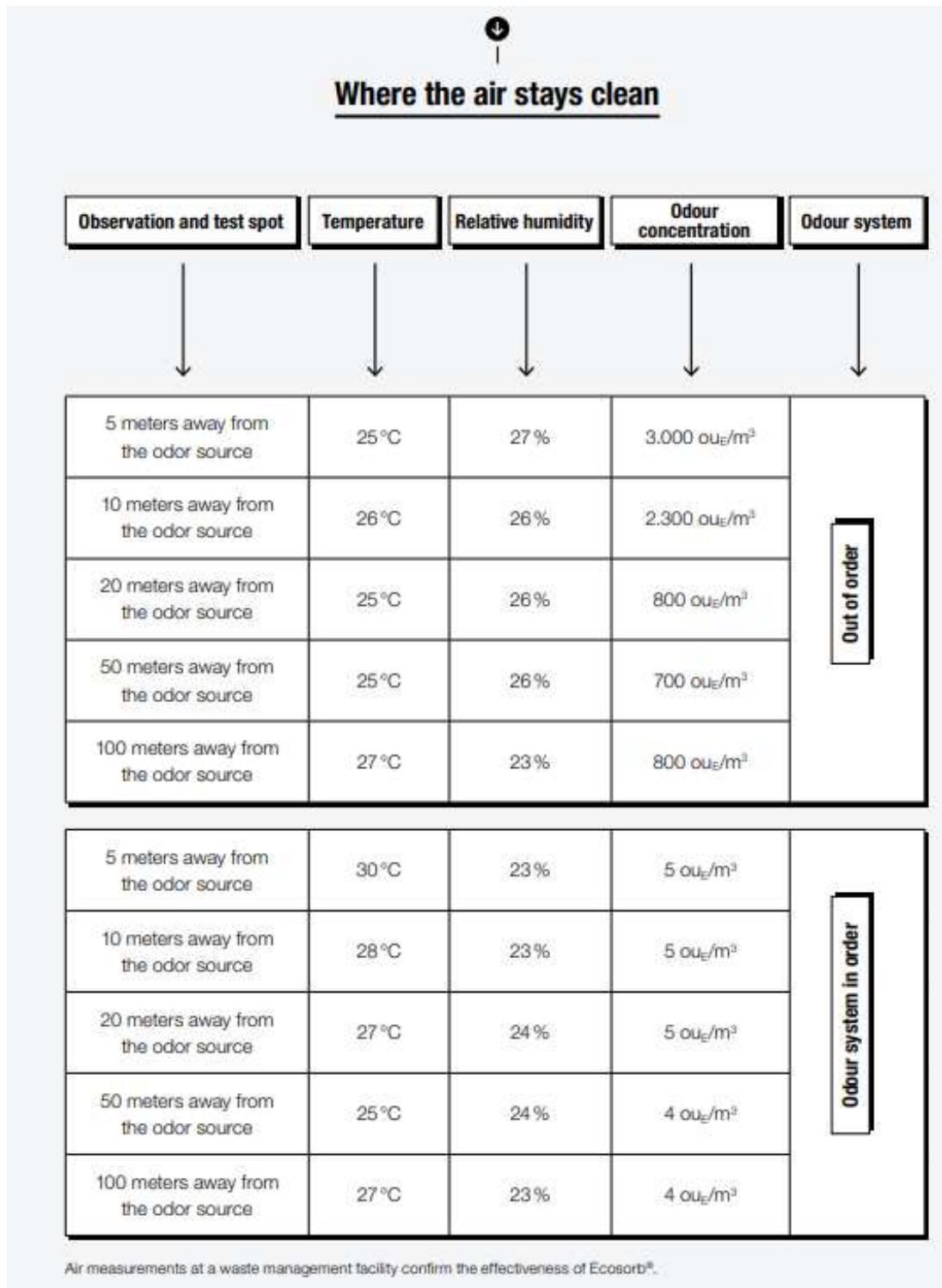
### What specific products does ACAT offer?

The most suitable product depends on the specific odour problem. “With Ecosorb®, we have a tailored solution for every situation.” Ecosorb® has been extensively tested over many years for its safety for the environment and humans. It has been clearly established that the product is non-toxic, biode-

gradable and organic. It does not mask odours but actively neutralises them and is also safe for the environment. ACAT also offers fogging systems specially developed for use with ACAT products. The spectrum ranges from pipes with high-pressure nozzles to atomising fans and large vapour phase systems. Furthermore, ACAT’s experts analyse the odours before and after treatment using special measuring instruments. ●



# SO THAT THE NEIGHBOURS WILL NO LONGER COMPLAIN ABOUT THE STENCH



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Good to know:

### Odour nuisance and the 500 ou<sub>e</sub>/m<sup>3</sup> rule

- **Odour nuisance is a serious problem in many areas, especially in waste management. Foul-smelling emissions can not only pollute the environment but also significantly impair the quality of life in affected areas. That is why clear legal regulations exist to control and minimise odour emissions.**
- **A key indicator in this context is the so-called 'odour unit'. It is measured in ou<sub>e</sub>/m<sup>3</sup>. ou<sub>e</sub> stands for 'European odour unit'. One ou<sub>e</sub>/m<sup>3</sup> is defined as the odour nuisance level at which 50 per cent of the people in the surrounding area can perceive a specific odour.**
- **The 500 ou<sub>e</sub>/m<sup>3</sup> rule states that a level of 500 odour units per cubic metre of air must not be exceeded in the vicinity of odour-emitting installations. This limit is intended to ensure that there is no unreasonable odour nuisance to neighbouring residential or commercial areas. If this limit is exceeded, odour reduction measures must be taken, such as using special filter systems or chemical odour eliminators.**
- **Effective odour elimination is therefore not only a question of environmental compatibility, but also a contribution to legal compliance and the protection of local residents. With Ecosorb®, ACAT is making a significant contribution to helping companies reduce their emissions to well below the threshold values.**

