



ΔACTIVE

The innovative complement to BC. products

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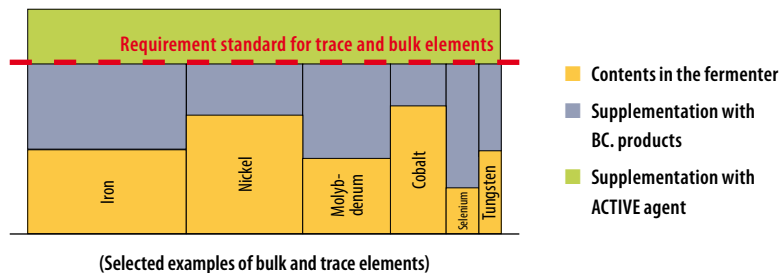
Trace elements and other nutrients (passive agents) need to be absorbed by microorganisms before they can be utilised in the production of enzymes and for other functions.

The ACTIVE range of supplements contains secondary plant metabolites (active agents) that act directly on the microbial metabolism in the fermenter.

Metabolic processes in the fermenter are characterised by complex chains of reactions, in which minute components are combined. The components contained in ACTIVE are immediately available to shorten metabolic paths and thus boost biogas formation and yields.

ACTIVE agents are used in the BC. products once the trace element supply has been optimised (see Fig. 1).

Fig. 1 – Example of a plant-specific trace element combination with ACTIVE agent supplementation

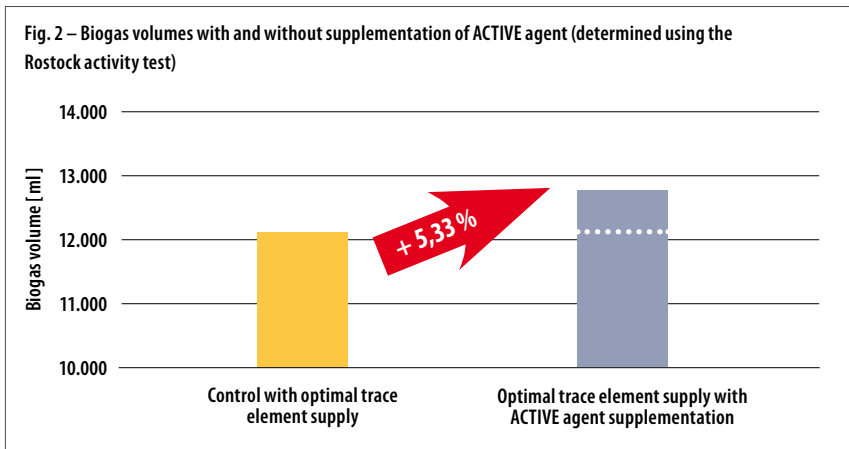


ACTIVE – the key to even better results

Optimal methane production depends on many factors: the appropriately balanced supplementation of the fermenter microbiota with nutrients is just as decisive as technical parameters such as organic digester load, hydraulic residence time and substrate intermixing.

The BC. product lines allow the process of methane formation to reach its optimum efficiency. They balance deficiencies and adjust for unfavourable conditions and availabilities of micronutrients in fermenters in an individually targeted manner.

Ongoing research and development, the results of recent trials and practical on-site praxis scale trials in biogas plants have shown that even plants with stable processes and good nutrient supplies can be further optimised. The use of ACTIVE in BC. products lifts the biochemical metabolism of the microorganisms involved to a new level. ACTIVE accelerates the process and boosts biogas production.



Your benefits when using ACTIVE

- ▶ Accelerates the rate of biogas production
- ▶ Inhibits the formation of long-chain, branched acids
- ▶ Increases the osmotic tolerance of bacteria

Your specialist Schaumann BioEnergy consultant assists you in selecting the optimal BC. range product for your fermenter system, based on your plant's specific requirements of trace elements, macro elements and active ingredients. Each product can additionally be supplemented by the ACTIVE agent.

Product lines	Description	Applications
BC.TEplex	The Liquid range: Liquid trace element concentrates in complexed form, non-corrosive, non-toxic.	Supply of pure trace elements, often in combination with the complementary supplementation of iron.
BC.MAGXX	The Specialist: Targeted, reduced trace element supplementation with ACTILINC trace elements and a baseline supply of macro elements.	Plants with baseline supply of macro elements (e.g. plants with a liquid manure portion > 30%).
BC.COMPACT	The Classic: Compact products for the targeted supplementation of micro and macro elements.	Plants requiring micro and macro element supplementation (e.g. pure energy crop plants).
BC.PRO	The All-rounder: Trace elements and macro elements for individual needs and the supplementation of a wide range of active ingredients	Biogas plants requiring supplementation of more than merely trace elements (e.g. nitrogen-rich plants - BC.PRO Ncon).



Schaumann BioEnergy products comply with the German regulations on chemicals handling (TRGS 529) and provide for maximal occupational safety.

