

Reducing emissions _____from the barn to the field_____



Reducing emissions from the barn to the field



ATMOWELL®

Ammonia reduction starts in the barn



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ATMOWELL®

Premiere: Pilot system installed on dairy farm

- ▶ **Approval success:**
First legally valid building permissions granted for dairy farms with solid floors
- ▶ **Easy retrofitting:**
Dosing, mixing and filling unit combined with the proven BETEBE SmartScraper system
- ▶ **World's first ATMOWELL® system at a practical level:**
In operation in the Osnabrück district (Germany) since August 2026



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NEW: Proof of efficacy provided for slatted floors

► Scientific study:

An average ammonia reduction of **27 percent** was confirmed in a dairy barn with slatted floor and slurry pit (cooperation partners: LUFA Nord-West, ILV of CAU Kiel)*

► Added value:

First sound data basis to justify the eligibility of urease inhibitor technology for ammonia reduction for future approval procedures**

► Market relevance:

New structural and economic development perspectives for dairy farms

* Study submitted for review

** Dairy cow housing systems with slatted floor and slurry pit





Innovation pipeline: Leap into the pig barn

- ▶ **Scientific basis:**
Ammonia reduction of **20 to 32 percent** confirmed (EmiMin joint project)
- ▶ **Current project:**
Development of a practical application system (IMPROVE project)
- ▶ **Goal:**
Practical readiness of system by 2030 in accordance with the requirements of the revised TA Luft (Technical Instructions on Air Quality Control)



PIADIN[®] neo

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PIADIN[®] neo

A new approach to organic fertilisation

- ▶ **Climate and environmental protection:**
Up to 60 percent less nitrous oxide emissions and 50 percent less nitrate losses
- ▶ **High N-Efficiency:**
Reduced N losses through highly effective nitrification inhibitors allow for a reduced CO₂ footprint
- ▶ **Optimized product formulation:**
Known stabilizing effect with halved application quantity and reduced logistics effort



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alpha-Line

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alpha-Line

Emission reduction right from production

- ▶ **Sustainability benefits:**
Up to **90 percent** lower CO₂ footprint in the production of mineral fertilizers through partial substitution of natural gas with biomethane
- ▶ **Multiple effect:**
Climate-friendly manufacturing combined with innovative inhibitors to reduce ammonia, nitrate and nitrous oxide emissions
(ALZON® alpha neo-N, PIAMON® alpha 33-S)





Your contact persons:



Dr. Bastian Hildebrand

Product manager

Email: bastian.hildebrand@skwp.de

Phone: +49 (0)3491 68 3000



Christopher Profitlich

Head of Communications and Corporate Affairs

Email: public.relation@skwp.de

Phone: +49 (0)3491 68 2265