



## Product Data Sheet

# HygieneFX<sup>®</sup>

Mineral solution for nitrogen emission reduction & barn hygiene

HygieneFX<sup>®</sup> is a very soft, easily spreadable, and highly absorbent hygiene powder, used to promote a dry, hygienic, and comfortable berth. HygieneFX has been developed to optimise barn hygiene, but also combines the manure and soil improving characteristics of FX minerals in one product.

HygieneFX has been specially designed as an application for mats and mattresses. Unlike biocide & hygiene powders with synthetic absorbents, HygieneFX achieves a high level of hygiene based on a natural effect. With an unparalleled high absorbency, HygieneFX can bind large amounts of moisture and ammonia. As a result, the barn climate is significantly improved, and a very unfavourable climate is created for bacteria and fungi.

### Physical properties

|                    |   |
|--------------------|---|
| Bulk density       | ≈ 800 kg/m <sup>3</sup>                   |
| Colour             | Grey                                      |
| Form               | Fine powder                               |
| Scent              | Citronella                                |
| pH                 | ≈ 9,5                                     |
| Composition        | Based on specially modified clay minerals |
| CEC                | ≈ 1350 Meq/kg                             |
| Packaging          | 25 kg bag                                 |
| Stable hygiene     | ★★★★★                                     |
| Soil improvement   | ★★★                                       |
| Manure improvement | ★★★                                       |

As far as we can judge, the above information is correct. However, we cannot give you any guarantees about the results you will achieve with this. This description is offered to you on the condition that you decide for yourself to what extent it is suitable for your purposes.

### Berth & Stable climate

The advantages of HygieneFX in terms of berth & stable climate are threefold;

- HygieneFX has an unparalleled high natural moisture absorption, creating a dry and comfortable berth with a positive effect on the health of the animals. The product can measure itself by the careful selection of natural minerals in the field of hygiene with synthetic absorbents and biocide products. The long-term hygienic effect is natural and, unlike biocides, works from within the source. Additionally, HygieneFX tackles the breeding ground of bacteria and fungi due to the high moisture absorption. This greatly reduces the chance of developing nasty bacteria such as E. coli and Klebsiella.
- HygieneFX is based on specially modified (clay) minerals with a very high absorbency of ammonia. Due to the unique composition of minerals, HygieneFX can effectively prevent the first ammonia evaporation in direct contact with manure and urine in the boxes, especially important for boxes where no deep litter is used. This has a positive effect on the barn climate and the immediate surroundings. The result is a fresher barn air, less flies and reduced stench when spreading and the processing of manure.
- HygieneFX contains no lime and therefore does not cause any deterioration of teats and claws. The mix of (clay) minerals has a strong caring effect on the skin, teats, and claws, therefore having a positive effect on the health of the animal.

### Manure quality & nitrogen savings

The advantages of HygieneFX in terms of manure quality & nitrogen savings are threefold;

- HygieneFX has a very strong absorbency of nitrogen (ammonia).
- HygieneFX promotes a more homogeneous manure and reduces cake and foam formation.
- With a CEC of  $\approx 1350$  Meq/kg and high moisture binding capacity, HygieneFX promotes the balance of the soil and prevents the leaching of nutrients, resulting in a better and more balanced plant growth, with better resistance to diseases and pests. The bound nitrogen in the barn can be put to good use. HygieneFX also contains useful trace elements.

### Application

It is recommended to add 50 grams per m<sup>2</sup> daily at the berth. When necessary, more product can be added to the berth, when higher moisture or ammonia absorption is required. HygieneFX can also be used effectively in combination with SlurryFX for an even further improved slurry processing and nutrient retention. In preparation for straw, flax and other deep litter mixtures, BeddingFX is recommended.

HygieneFX is developed and produced by Cebo Holland. The product has been extensively tested at multiple locations. Cebo Holland has more than 40 years of experience in processing (clay) minerals, including t.b.v. animal feed.

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