



Wünschendorfer Dolomitwerk GmbH

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DEDOLDES® - Animal Hygiene Product

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1. General

DEDOLDES® is a product of natural dolomite made by burning in the shaft kiln. The main components of calcium and magnesium oxide occurring in an almost equal stoichiometric quantity ratio are complemented by the aggregates of calcium and magnesium carbonate and magnesium oxide. The resulting acidity levels (grades I – to III) make the product versatile in application with optimum effectiveness at minimal cost.

There is NO risk of ignition for all grades because of the low slaking temperature of the burnt lime, even if it comes into contact with organic material, such as straw or wood.

DEDOLDES® can be used biogas plants, is skin-friendly when using the required grade and be used in organic farming. The bacteria-reducing effect of DEDOLDES® was positively verified in practice-oriented tests by Thüringer Tiergesundheitsdienstes e. V. applying the swab method to test for indicator germs, such as streptococci, staphylococci, coliform germs and aerobic spore-forming bacteria. Multi-year experience has validated the test results in a large number of farms.

2. Chemical composition

Designation	.Grade I DEDOLDES• 100	.Grade II DEDOLDES• 50	.Grade III DEDOLDES• 30
CaO	min. 50 %	min. 35 %	max. 20 %
MgO	min. 35 %	min. 20 %	max. 10 %
CaCO ₃	max. 5 %	max. 25 %	max. 40 %
MgCO ₃	max. 3 %	max. 15 %	max. 25 %
Slaking temp.	max. 50°C	max. 35° C	max. 30° C

3. Physical data

Compacted dry density (kg/l)	DEDOLDES® 100	approx.	0.95 - 1.05
	DEDOLDES® 50		1.3 - 1.4
	DEDOLDES® 30		1.4 - 1.6

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Burnt dolomite for metallurgy · Quicklime as fertilizer · Pulverized dolomitic lime according to DIN EN 459-1 for soil compaction · DEDOLDES® for animal housing hygiene · Decarbolith for water treatment · Carbonic magnesium lime as fertilizer · Dolomite filler · Dolomite sands · Washed crushed rock and chippings · Base sealing material · Variegated sandstone · Rubble recycling · brick, concrete, bitumen · Concrete recycling 32 mm · Excavated earth acceptance · Earthwork



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4. Available grain sizes

Designation	Grain size	Application
Microfine	0 - 0.2 mm	for rubber mats
Dust-reduced	0.2 - 1 mm	for walking areas, straw, saw dust or lime-straw mattresses
Standard	0 - 1 mm 0 - 2 mm	for walking areas, straw, saw dust or lime-straw mattresses

5. Certification for organic farming

The products can be used by farms undergoing a control procedure as defined by the EU-Eco-Regulation 834/2007.

6. Application

DEDOLDES® is a inexpensive, natural, long-acting and environmentally friendly animal hygiene product for cattle, pig, sheep, goat, horse, chicken and rabbit farming.

The intensive Grade I is recommended for treating walking and commercial areas inside and outside of animal housing.

This grade is also suitable for basic liming of deep litter bedding cubicles, manure and lime-straw mattresses. Grade II should be used for lying surfaces.

Grade III (DEDOLDES® 30 may be necessary when special udder hygiene measures are taken (e.g. use of adhering dip agents).

The Grades I and II are tried and tested products for use as "dry bath" (5 to 6 cm bulk height in herding basin) or Grade II as thin paste. This type also provides sustainable treatment of the interdigital space.

7. Proposed applications of DEDOLDES®

What for?	Where ?	How much ?	How often ?
Basic liming	Housing and open area	100 g/m ²	1 x per week
Basic liming	Deep bedding cubicles Manure and lime-straw mattress	200-250 g/m ²	1 x per week
Standard liming	Lying surface	60 g/m ²	2 x per week
Claw liming	see item 6		1 x per week



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8. Effect of DEDOLDES®

If DEDOLDES® is used properly the following effects can be achieved

- Germ reduction in walking and lying areas
Improvement of hygienic status, efficient supplement
of therapeutic and sanitation measures
- Water-binding/hygroscopic effect on microorganisms
pH-value increase ≥ 12
- Better surefootedness
Lower risk of injury because slippery surfaces are made
skidproof, improved claw health,
long-term disinfection without residue problems,
drying and hardening of claw horn and lower risk of claw injury
and secondary infection
- Improved animal housing climate and keeping and working conditions
Smell reduction, less formation of ammonia,
less fly and pest infestation
- Additional fertilizing effect on the field due to calcium and magnesium components

9. Storage and packing

The product should be protected from weather influences and stored on closed containers or rooms because otherwise there would be the risk of hydration and re-carbonization. The product is available by road tanker, in Big Bags on pallets or in 25 kg bags of about 1 to on pallets.

10. Hazard and safety advice

The substance of calcium magnesium oxide (CaOMgO) contained in DEDOLDES® was registered on September 27, 2010 in accordance with the REACH Regulation 1907/2006/EC under the reference No. 01-2119474202-47-0005 .

The product is registered with Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (baur) [*Federal Institute for Occupational Safety and Health*] under the number N-33271.



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For the classification and labelling of substances and mixtures according to the CLP regulation of the EU see the package inserts coming with the delivery and the EC safety datasheet.

11. Disposal

If the material is no longer needed, it can be used as high-quality fertilizer.

12. Quality assurance

Self monitoring: in-house lab

External monitoring: Materialforschungs- und Prüfanstalt Weimar (MFPA Weimar)