



Wünschendorfer Dolomitwerk GmbH

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User Information for Lime-Straw Mattresses in Cubicles

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Animal housing hygiene and animal comfort

The lime-straw mattress is a special type of mixture consisting of carbonic magnesium lime, chopped straw and water.

The animal-friendly mattress improves the hygienic standard in the housing and wellbeing of the animals, reduces the moisture on the lying areas and keeps udders clean and dry. Germ formation can be reduced and the anti-bacterial effect of the lime-straw mattress helps to prevent claw diseases.

The carbonic magnesium lime used is a natural product available throughout the year. The magnesium lime is ground microfine with a grain size **90% below 0.09 mm** and features a **total carbonate content of over 90 % CaCO₃ + MgCO₃**.

Since the product is free of any loamy-clayey components, the moisture (water, urine, faecal matter) from animals is absorbed and discharged quickly. The build-up of damp on the mattress is thus reduced.

Structure and mixing ratio

When making lime-straw mattresses for the first time or new ones the area of deep litter bedding should be wetted with water as a first step.

Professional advice: After wetting the housing hygiene product DEDOLDES® 100 should be littered on the cubicle floor that has a very good and long-lasting reactivity (pH ≥ 12) For efficient germ reduction we recommend applying approx 100 - 150 g/m² DEDOLDES® 100. The lime-straw mattress can be mixed in the feed mixer. The straw is mixed with the water and then the carbonic magnesium lime is added until the desired final consistency has been reached. To determine the best user-specific mixing ratio, the following basic ratios and quantities can be used as the basis:

	Straw	Carbonic magn. lime	Water	Total
Base Quantity per cubicle:	1 .approx. 20 kg	5 .approx. 100 kg	2 .approx. 40 l	.approx. 160 kg
Top layer and supplementary litter Quantity per cubicle:	1 .approx. 20 kg	3 .approx. 60 kg	1 .approx. 20 l	.approx. 100 kg

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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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Mixing

The mix for the base should be generally somewhat wetter than the top layer and supplementary litter.

The quantity of ready-mix material needed for initial or new straw-lime mattresses is about 250 kg per cubicle. For supplementary littering, which should take place every 1 or 2 weeks about 100 kg ready-mix material will be needed per cubicle.

Professional advice

Wet the base with water prior to adding supplementary litter to reduce germ formation and increase the pH value and then spread about **50 - 100 g/m² DEDOLDES[®] 100**. For regular animal hygiene and disinfection it has turned out to be useful to directly admix about **5 - 10 % DEDOLDES[®] 50** to the top layer and supplementary litter and litter about **50 g/m² DEDOLDES[®] 50** on the mattress surface **once or twice a week**.

Carbonic magnesium lime and DEDOLDES[®] are certified and can be used in farms undergoing a control procedure as defined by the EC Regulation 834/2007 concerning organic farming. The products are monitored by external test labs.

Spread together with the liquid manure the high calcium and magnesium contents of the products have a fertilizing effect and support the liming of soils or preservation purposes.