

DeLaval International AB

Bedding Treatment DryMaxx™

Slip resistance

DLG Test Report 5566 F



Manufacturer
Absorbent Products Ltd.
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Kamloops, B.C.
Kanada V2H 1E7



Deutsche Landwirtschafts-
Gesellschaft e.V.
DLG Testzentrum
Technik & Betriebsmittel

Description

Slight acidic, light-grey bedding material consisting of diatomaceous earth and other compounds to be used as bedding treatment on the lying area of cattle.

Hazard warning:

Components of DryMaxx™ can result in skin and mucosa irritation in case of inappropriate use.

Registering company

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Test Results and Individual Evaluations

Entry analysis

In order to determine the ingredients the product was analysed in the laboratory. The composition complies with the ingredients mentioned in the material safety data sheet.

Slip resistance

Slip resistance was determined using a loaded round plastic foot (contact area approx. 75 cm²) which was drawn over two different elastic floor covers for cubicles at a speed of 20 mm/s.

Used was a rubber mat with foam underlayer and a cow mattress (underlayer: tubes filled with granulated rubber and woven cover layer consisting of polypropylene) both DLG tested. Test results are displayed in the two following tables.

Results in table 1 show no improvement of the friction coefficient through the use of DryMaxx™ neither on the dry nor on the wet rubber mat. The values measured using DryMaxx™ are above or equal the limiting value, therewith a good slip resistance is given.

The results in case of the cow mattress (table 2) show an improvement of the friction coefficient value on the mattress under dry and wet condition using DryMaxx™.

The measured friction coefficients (μ) were equal or greater than the limiting value of $\mu=0.45$.

Evaluation
 – Slip resistance measured during sliding tests on dry and wet covers was good +

Evaluation scale:
 + / + / o / - / -- (o = standard)

Table 1:
 Rubber mat with foam underlayer (RM) speed of plastic foot 20 mm/s

amount of bedding material	surface condition	mean friction coefficient (μ)
RM no litter	dry	0.56
RM with 50 g/m ² DryMaxx™	dry	0.51
RM no litter	wet	0.49
RM with 50 g/m ² DryMaxx™	wet (approx. 70 g water/m ²)	0.45

Table 2:
 Cow mattress (CM) speed of plastic foot 20 mm/s

amount of bedding material	surface condition	mean friction coefficient (μ)
CM no litter	dry	0.53
CM with 50 g/m ² DryMaxx™	dry	0.65
CM no litter	wet	0.48
CM with 50 g/m ² DryMaxx™	wet (approx. 70 g water/m ²)	0.58

Test

The DLG FokusTest included technical measurements on test stands and determining the ingredients in the laboratory of the DLG Test Center Technology and Farm Inputs. Slip resistance was analysed.

Due to the present test results, regarding the test criterion slip resistance, the bedding treatment DryMaxx™ fulfils the requirements (evaluation standard (○) or better) for being awarded the „DLG FokusTest“.

Other criteria were not tested.

Reporter

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German Agricultural Society
DLG Test Centre Technology and Farm Inputs

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