

## Sand Control

Highly Palatable *Plantago ovata* Pellets, Formulated to Control Sand Colic, Chronic Constipation and Equine Metabolic Syndrome

**Active ingredients** (per dose): *Plantago ovata* 21,640 mg.

**Composition:** Psyllium seed cuticle (*Plantago ovata*), propionic acid, apple flavouring, mineral oil, dehydrated molasses.

**Analytical constituents:** Crude protein 12.3%; crude oils and fats 6.95%; crude fibre 5.4%; crude ash 6.2%; moisture 10.0%; calcium 0.45%; phosphorus 0.29%; sodium 0.08%.



**Properties:** Psyllium comes from the cuticle of the *Plantago ovata* seed, a plant which is particularly rich in fibre and mucilage, which give it its digestive properties. It contains 85% soluble fibre, much more than other seeds commonly used in feeding horses such as oat bran and wheat which contain 15% and 10% respectively. This fibre has a single structure of polysaccharides which makes it resistant to digestion and absorption in the stomach and small intestine, as well as to bacterial fermentation in the colon. Once in the digestive tract, Psyllium absorbs a large quantity of water and forms a gelatinous mass which hydrates and reduces the viscosity of faeces and increases the volume thereof.

### Mechanism of action:

- The viscosity of faeces is greatly affected by the quantity of water in the faecal content. The high water retention capacity of *Plantago ovata*, up to 40 times its weight, greatly reduces the viscosity of faeces. Consequently, there is less resistance resulting in faster transit or shorter transit time.
- Psyllium also increases faecal mass (up to 3.7 g per gram consumed) and, therefore, the tension of the intestinal wall, stimulating peristalsis and thereby reducing constipation. The dietary fibre degradation products, as a result of bacterial action in the colon, may also contribute to the laxative effect (Brunton 1990, Kay et al. 1978).
- At the same time, the mucilage forms a lubricating layer around the wall of the intestine that facilitates the transit of intestinal contents without irritating the mucosa.
- Psyllium lowers insulin resistance, significantly reducing the mass mobilisation of fatty acids re-esterified in the liver to triglycerides. This effect is associated with soluble fraction fibres.

### Indications:

- Elimination of sand from the ventral colon: prevention of sand colic in susceptible animals and to eliminate residual sand content after sand colic surgery.
- Laxative: management of chronic constipation or in situations where easy defecation with soft stools is desirable, for example, in cases of painful defecation after anal or rectal surgery, postpartum recto-vaginal lacerations/fistulas, haemorrhoids, tears or wounds, etc.
- Reduction in glucose and insulin levels in the blood in order to prevent equine metabolic syndrome, characterised by three main signs: obesity, insulin resistance and endocrine origin laminitis.
- Prevention of hyperlipidaemia in obese horses and especially in overweight pregnant or lactating mares, ponies and donkeys, when they at the same time reduce food intake and stressful situations.

**Target species:** Equidae.



### Features

Treatment and prevention of sand colic.

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Management of chronic constipation.  
Laxative and lubricant effect.

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Control of laminitis (Equine Metabolic Syndrome).

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Highly palatable, apple and molasses flavoured pellets.

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Does not contain doping substances.



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**Dosage and administration:** The scoop included, level, equivalent to 30 grams.

- Prevention of sand colic in susceptible animals or those with a history of sand ingestion, or as sand colic post-surgical follow-up (in order to eliminate the remaining sand): 30 g per 100 kg body weight a day for 5 consecutive days every month.
- Expulsion of large quantities of sand (previous diagnosis): 90 g per 100 kg body weight a day for 3-5 days.
- Intestinal laxative/lubricant: 15 g per 100 kg body weight a day, until the constipation disappears.

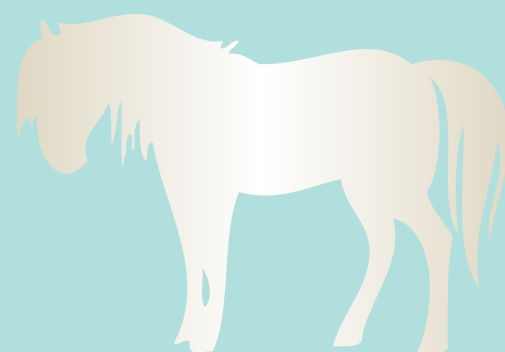
The animals must have permanent access to water. VETERINARY CLINICAL CARE® Sand Control acts within 12 to 24 hours post-administration; sometimes the maximum effect is not reached until 2 or 3 days after.

**Warnings:** This product does not contain any substances which are banned in competition. Keep the container tightly closed in a cool, dry place, away from direct sunlight and out of reach of children and animals. Complementary feed for horses, not intended for human consumption.

**Presentation:** 1.5 kg (50 doses, 2 months' supply for the sand colic prevention regime).

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Highly Palatable *Plantago ovata* Pellets, Formulated to Control Sand Colic, Chronic Constipation and Equine Metabolic Syndrome

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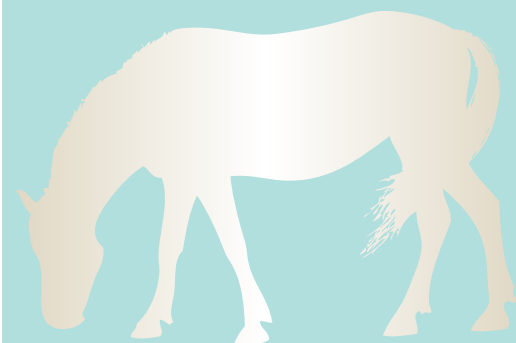
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