



ZOO
SPECIALTIES



Zoo Specialties product range



Nature's best  best results!

Kasper Faunafood, a brand of
Arie Blok Animal Nutrition
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Kasper Faunafood Zoo Specialties

ZOO
SPECIALTIES

Kasper Faunafood, one of Arie Blok's brands, under the name ZOO Specialties has brought onto the open market a special assortment of feed for animals being held in zoos. When putting together the feed, we paid special attention to the natural behaviour of an animal in its own habitat. In addition, our guiding principle was to use the relevant literature to determine the feeding needs of every species. In this way, we could develop feed for every species that matched their unique feeding patterns perfectly. The feed varies greatly in composition and contributes to building up and maintaining the animals' fitness.

Certification Arie Blok GMP+ and SecureFeed

All raw materials are of high quality and meet the most stringent requirements of GMP+ International. This provides a solid foundation for guaranteed high quality animal feed and grain products.

Besides this, Arie Blok participates in SecureFeed, a foundation that is responsible for the assurance of the food safety of animal feed. Foundation participants supply feed materials, compound feed and feed additives directly to farmers. SecureFeed develops and manages a system for monitoring and risk assessment of raw materials and their suppliers. By sharing knowledge, the participants of SecureFeed work on strengthening the awareness of risk and how to approach it.

Arie Blok is a corporate member of EAZA.



Sustainability

Besides paying attention to the animal itself, Kasper Faunafood has also been looking at sustainability. Many ZOO specialties use *Miscanthus giganteus* (Giant Chinese Silver Grass) as a source of fibre for animals that need a high percentage of fiber and NDF, ADF and ADL in their food. *Miscanthus giganteus* is a very economical crop containing a high amount of fibre cultivated in the Netherlands has an extremely low carbon footprint.

Arie Blok has reached an agreement with the Nederlandse Vereniging voor Dierentuinen (NVD) [= Netherlands Zoological Association] so that soya processed in ZOO specialties is purchased from reliable sources of cultivation.



Assortment Zoo Specialties

For more information and product specification see: www.kasperfaunafood.nl

Primates

Primate diet GO 2 Gluten-free
Primate diet PT 1 (Old World Apes)
Langur diet
Primate mix Folin+B12
Primate mix Vit D3

Grazers

Grazer pellet

Browsers

Browser pellet

Herbivores

Herbivore pellet plus

Alpacas, Lamas and Camels

Alpaca/Lama/Camel pellet

Pachyderms

Elephant pellet

Kangaroos

Kangaroo pellet

Flamingos

Flamingo maintenance pellet
Flamingo floating maintenance pellet
Flamingo floating breeding pellet
Cantazoo

Cranes

Crane starter pellet
Crane maintenance pellet
Crane breeding pellet
Crane extruded breeding pellet

Walkers

Walker starter crumb
Walker maintenance pellet
Walker laying pellet

Supplements

Hummingbirds

- Mix for Hummingbirds

Carnivore predators

- Carmix

Meat or prey eating birds and reptiles

- Carnizoo

Fish-eating Animals

Akwavit Fish-eating Animals
Akwavit Dolphins
Akwavit Pinnipeds
Akwavit Shark
Akwavit Liquid

In addition to the Zoo Specialties, Kasper Faunafood has a broad and deep assortment of feed for poultry, rabbits, guinea pigs, chinchillas, rodents, sheep, goats, deer, ornamental water birds, ornamental fowls, turkeys, doves, birds, donkeys, cattle and pigs.

Recommended feed is only a guideline. The species, its age, its size, its lifecycle/stage of life, its state of health, its activity and the ambient temperature all determine how much feed to give the animals. In addition, raw feed along with any other components making up the menu, affect how much feed to give the animals.



Primates

Primate diet GO 2 Gluten-free

Product number	250120
Product form	pressed Ø 8 mm
Content	20 kg

Feed supplement for apes. A pellet to enhance maintenance and growth. High protein content makes the pellets suitable for both Old World and New World apes.

- > Based on a gluten-free recipe
- > High vitamin C content
- > With apple aroma

Recommended daily feed intake:

Give your primates at least half of their daily rations in the form of these pellets, as they eat approx. 2-4% of their body weight a day and the amount of food is then squeezed out based on dry matter.

Primate diet PT 1 (Old World Apes)

Product number	251320
Product form	pressed Ø 10 mm
Content	20 kg

Feed supplement for apes. A pellet to enhance maintenance and growth. The pellet has a high fibre content (hemicellulose, cellulose and lignin). This means Primate diet PT 1 aids proper digestion. Not suitable as a feeder for New World Apes.

- > High amount of fibre
- > Contains soluble and thus easily digestible grains
- > With apple aroma

Recommended daily feed intake:

Give your primates at least half of their daily rations in the form of these pellets, as they eat approx. 2-4% of their body weight a day and the amount of food is then squeezed out based on dry matter.

Langur diet

Product number	252120
Product form	pressed Ø 14 mm
Content	20 kg

Feed supplement for langurs and gorillas. The pellet is based on the nutritional needs of leaf-eating apes and contains a combination of large levels of protein and fibre in the form of cellulose.

- > High in protein and fibre
- > Concentrated feed, high in vitamins
- > With apple aroma

Recommended daily feed intake:

Give your primates at least one third of their daily rations in the form of these pellets, as they eat approx. 2-4% of their body weight a day and the amount of food is then squeezed out based on dry matter.

Primate mix Folin+B12

Product number	6934
Product form	powder
Content	400 g

Feed supplement for apes that enhances:

- > Build-up of protein and muscle tissue
- > Production of red blood cells
- > Folic acid for the early development of unborn babies

Recommended daily feed intake:

1 spoonful (5 g) for every 15 animals: equivalent to 0.33 g per animal daily.

Primate mix Vit D3

Product number	6935
Product form	powder
Content	400 g

Feed supplement for apes. Vitamin D plays an important role in various organ systems:

- > Vitamin D regulates the levels of calcium and phosphorous in the blood by promoting its absorption from the food in the gut as well as its reabsorption in the kidneys
- > It reduces calcium loss from the bone
- > It blocks the loss of parathyroid hormone from the parathyroid gland

Recommended daily feed intake:

1 spoonful (3 g) for every 6 animals: equivalent to 0.5 g per animal daily (= 40 ie).



Grazers | Browsers

Grazer pellet

Product number	630920
Product form	pressed Ø 6 mm
Content	20 kg

Feed supplement for grazers such as zebras, gnus and waterbucks. Grazer pellet has been developed to be added to a diet of raw feed such as grass, hay, silage and alfalfa to a maximum of 40%. Besides grains, it contains a large amount of alfalfa and grass flour as well as

miscanthus giganteus, for a proper fibre composition with high percentages of cellulose.

- > Stimulates the animal's digestive system
- > Contains easily fermentable fibre and carbohydrates that are easy to digest
- > Balanced pattern of vitamins and minerals for good health

Recommended daily feed intake:
0.5 kg per 100 kg body weight.

Browser pellet

Product number	631420
Product form	pressed Ø 6 mm
Content	20 kg

Product number	632220
Product form	pressed Ø 10 mm
Content	20 kg

Feed supplement for browser eaters such as giraffes, okapis, kudus, bongos, muntjacs and dik-diks. The foraging behaviour of browsers is quite distinct to that of grazers and ruminants. Besides this their gastrointestinal system is adapted to eating on the one hand soluble sugars and on the other lignin-rich fibre and

branches that are difficult to ferment. Browser pellet has been developed so that it can be added to diets of alfalfa hay and willow branches, to a maximum of 40%. Fibre content in the Browser pellet is partly made up of *miscanthus giganteus*, a natural plant material with a high percentage of cellulose and lignin.

- > High percentage of fibre in the form of cellulose and lignin
- > Low percentage of starch
- > Balanced percentage of vitamins, minerals and trace elements for good health
- > Tasty feed

Recommended daily feed intake:
0.5 kg per 100 kg body weight.

Herbivores

Herbivore pellet plus

Product number	630820
Product form	pressed Ø 6 mm
Content	20 kg

Feed supplement for polygastric and horse-like animals strongly focussed on enhanced health. These animals fed on a frugal diet are often in need of specific nutritional components to stay healthy. Herbivore pellet plus ensures this by containing high levels of vitamin E and natural phenol acting as an antioxidant. Fibre content in Herbivore pellet plus is partly made up of *miscanthus giganteus*, a natural plant material.

- > Rich in vitamin E antioxidant-activity to enhance disease resistance and health
- > Fibre-rich pellet suitable for herbivores that only eat limited quantities of hay
- > Rich in biotine to enhance consistency and structure of hoof horn. Biotine helps achieve strong hoof soles
- > Rich in polyunsaturated fats (linoleic acid and alpha-linolenic acid). These contribute to a healthy skin and coat. Linseed (flaxseed) is used as a natural source of alpha-linolenic acid

Recommended daily feed intake:
0.5 kg per 100 kg body weight.





Alpacas, Lamas and Camels

Pachyderms | Kangaroos

Alpaca/Lama/Camel pellet

Product number	632320
Product form	pressed Ø 4 mm
Content	20 kg

Feed supplement for alpacas, lamas and other members of the camel family. A complete feed based on the needs of the camel family, Alpaca/Lama/Camel pellet contains a high amount of

vitamins, minerals and trace elements and is high in raw fibre but low in protein.

Recommended daily feed intake:

- > Alpacas
(body weight 60-75 kg) 0.75 kg per animal
- > Lamas
(body weight 100-125 kg) 1.25 kg per animal
- > Camels
(body weight 500-650 kg) 4.00 kg per animal



Elephant pellet

Product number	631820
Product form	pressed Ø 8 mm
Content	20 kg

Feed supplement for elephants and rhinos. Raw feed is the most important component in the diet of these animals. Elephant pellet has been developed to cover nutritional needs in terms of vitamins, trace elements and minerals.

- > A balanced pattern of vitamins and minerals for good health
- > Linseed (flaxseed) is used as a natural source of alpha-linolenic acid. Rich in polyunsaturated fats (linoleic acid and alpha-linolenic acid). These contribute to a healthy skin and coat

Recommended daily feed intake:

1 kg per 500 kg body weight.

Kangaroo pellet

Product number	281020
Product form	pressed Ø 4 mm
Content	20 kg

Feed supplement for kangaroos and wallabies. As a balanced pellet enhancing maintenance and growth, Kangaroo pellet is particularly suited to the nutritional needs of kangaroos and wallabies.

- > Rich in polyunsaturated fats (linoleic acid and alpha-linolenic acid). These contribute to a healthy skin and coat. Linseed (flaxseed) is used as a natural source of alpha-linolenic acid
- > Contains a high percentage of vitamin E

Recommended daily feed intake:

- > Wallabies
250 g per animal
- > Kangaroos
500 g per animal



Flamingos

Flamingo maintenance pellet

Product number	660120
Product form	pressed Ø 4 mm
Content	20 kg

Flamingos have a unique type of beak that sieves food out of the water. Such birds make demands of their own on both the composition of their feed and how it is handed out to them. The Flamingo maintenance pellet is a compressed pellet to which cantaxantine has been added. It can be provided in a dry form or left to soak in a trough as porridge.

Recommended daily feed intake:

150 g per animal.

Flamingo floating maintenance pellet

Product number	6161
Product form	extruded Ø 5 mm
Content	15 kg

This maintenance pellet to which cantaxantine has been added, floats.

Recommended daily feed intake:

150 g per animal.

Flamingo floating breeding pellet

Product number	6167
Product form	extruded Ø 5 mm
Content	15 kg

This product floats and is intended for use by breeding animals. The pellet should be provided approx. six weeks prior to the breeding season. The older animals feed the young flamingos for four months. During this period, given its enhanced mineral and trace-element content, we recommend feeding the flamingos the Flamingo floating production pellet to which cantaxantine has been added.

Recommended daily feed intake:

150 g per animal.



Cantazoo

Product number	6933
Product form	powder
Content	4 kg

Animal feed supplement for aquatic birds with red factor. Cantazoo contains the red colourant canthaxantine and beta-carotene. The product is especially developed for birds with red factor, such as ibises, flamingos and pelicans. Cantazoo does not contain additional vitamins and minerals. It is easy to dose and it comes double packed in buckets along with two dosage beakers: the smaller one contains 3 g and the larger one 20 g. Administer Cantazoo by mixing it with the daily feed ration.

Recommended dose:

- > 1% of the daily food intake
- > During the moult: 2% of the daily food intake



Cranes

Crane starter pellet

Product number	616420
Product form	pressed Ø 3 mm
Content	20 kg

Feed supplement for young birds up to approx. 12 months.

Recommended daily feed intake:
25-150 g per animal.

Crane maintenance pellet

Product number	616220
Product form	pressed Ø 4 mm
Content	20 kg

Feed supplement for adult birds outside the breeding season.

Recommended daily feed intake:
150 g per animal.

Crane breeding pellet

Product number	616320
Product form	pressed Ø 4 mm
Content	20 kg

Feed supplement for adult birds during the breeding season.

Recommended daily feed intake:
150 g per animal.

Crane extruded breeding pellet

Product number	6168
Product form	extruded Ø 5 mm
Content	15 kg

Feed supplement that does not go off even in a damp environment making it ideal for feed distribution in the outside run.

Recommended daily feed intake:
150 g per animal.

Walkers

Walker starter crumb

Product number	661820
Product form	crumbs
Content	20 kg

Feed supplement for ostriches, emus, rheas and cassowaries. To be used up to the age of approx. four months. This complete feed contains protein with a high biological value to enhance chick growth. This feed contains calcium and phosphorous in easily digestible form and in the right proportion for the proper development and growth of both skeleton and feet.

Recommended daily feed intake:
> ostrich 0.5-1 kg per animal
> emu/rhea/cassowary 0.25-0.5 kg per animal

Walker maintenance pellet

Product number	661920
Product form	pressed Ø 4 mm
Content	20 kg

Feed supplement for ostriches, emus, rheas and cassowaries. To be used from the age of approx. four months and outside the laying season. Contains moderate amounts of protein and energy.

Recommended daily feed intake:

- > ostrich 1-2.5 kg per animal
- > emu/rhea/cassowary 0.75-1.25 kg per animal

Walker laying pellet

Product number	662020
Product form	pressed Ø 4 mm
Content	20 kg

Feed supplement for ostriches, emus, rheas and cassowaries. To be used during the laying season. This laying feed contains sufficient amounts of extra raw protein and calcium needed to enable the birds to produce eggs. Besides this you can feed them extra amounts of grit. You should give your birds extra protein by feeding them Walker laying pellet during the moult to speed up the growth of a new set of feathers.

Recommended daily feed intake:
> ostrich 1.5-3 kg per animal
> emu/rhea/cassowary 1.0-1.5 kg per animal



Zoo Specialties supplements

Under the Zoo specialties label, a variety of feed supplements have been brought onto the open market. These are given as a summary below.

Hummingbirds Mix for Hummingbirds

Product number	283004
Product form	powder
Content	4 kg

Feed supplement for hummingbirds. Mix for hummingbirds consists of vitamins that you can add to the honey.

How to use:

Mix 2 g of powder with some water and add this to 100 g of honey (percentage interference = 2%).

The mix should be made up and provided two or three times a day. It easily and rapidly becomes hard causing the drink nipple to become blocked.

See page 11 for Cantazoo:
a supplement for red factor birds.

Carnivore predators Carmix

Product number	2824
Product form	powder
Content	4 kg

Product number	282410
Product form	powder
Content	10 kg

Feed supplement for carnivorous cat-like mammals. Carmix is a vitamin and mineral concentrate, specially made for carnivorous beasts of prey.

The nutritional composition of Carmix is based on a dosage of 1% in the meat diet. The combination of meat diet and Carmix covers fully the nutritional needs of an adult cat. Carmix also contains omega-3-fatty acids. These fatty acids are derived from fish oil that can contribute towards maintaining the animal's health. The small dosage spoon contains 5 g of Carmix; the large one 30 g.

Recommended dose:

1% of the daily diet of cat-like animals.

Meat or prey eating birds and reptiles Carnizoo

Product number	6931
Product form	powder
Content	4 kg

Product number	693110
Product form	powder
Content	10 kg

Feed supplement for meat-eating birds of prey and reptiles. The recommended dose is 10 g per kilo of prey. Mix Carnizoo through the daily diet. In this way, the animal gets the right amount of minerals, trace elements and vitamins it needs for its everyday activities and good health. The small dosage spoon contains 5 g of Carnizoo; the large one 30 g.

Carnizoo contains omega-3-fatty acids. These fatty acids are derived from fish oil that can contribute towards maintaining the animal's health and in young animals can have a positive effect on their ability to learn and to be trained. Sea algae chalk is an important source of the minerals calcium and magnesium. This type of mineral makes it very easy to absorb calcium

and contributes towards an uninterrupted digestion of the diet and to bone mineralization. It ensures bones remain light but strong with many cross connections in their internal structure.

Recommended dose:

1% of the daily diet for birds of prey and meat-eating reptiles.





Zoo Specialties Akwavit

In many zoos and sea aquaria, the daily portion of fish that fish-eating animals get was first frozen. In fish that was frozen and then defrosted enzymes and oxidants that were active are associated with the decomposition of dead animals. This means the effectiveness of part of the supply of vitamins in the fish is lost. This can be easily compensated for and specifically targeted by adding Akwavit tablets behind the gills or into the mouth of the fish that are being used to feed the animals.

Where possible, feed the Akwavit products half an hour to one hour prior to the normal feeding time to enable better vitamin absorption.

The table below shows the recommended dose for the different kinds of fish-eating animals.

Body weight	Daily tablets*	Examples of animals in the given body-weight category
0 - 150kg	1	<ul style="list-style-type: none"> > Juvenile seals and sea lions > Adult female fur seals > California sea lions > Harbor seals
150 - 300kg	2	<ul style="list-style-type: none"> > Adult bottle-nosed dolphins > Grey seals > Male fur seals > Male California sea lions > Female Steller sea lions
300 - 500kg	3	<ul style="list-style-type: none"> > Juvenile walruses > Adult male Steller sea lions
500 - 1000kg	4	<ul style="list-style-type: none"> > Adult beluga whales > Male Steller sea lions > Female walruses
1000 - 1500kg	5	<ul style="list-style-type: none"> > Adult male walruses
1500 - 2200kg	6	<ul style="list-style-type: none"> > Adult orcas

The weight of juveniles will change over time. Adult weight can vary due to their environment, stage of life and management. Tablet dosage should take account of this.

* - for Akwavit Dolphins, Akwavit Pinnipeds and Akwavit Skarks
 - for Akwavit Fish-eating Animals double the dosage

Akwavit Fish-eating Animals

Product number	690206
Product form	tablets
Content	200 tablets

Feed supplement for fish-eating animals. Akwavit Fish-eating Animals is a daily supplement specially developed for various fish-eating animals such as penguins, ibises, and pelicans. Akwavit Fish-eating Animals contains all the necessary vitamins and minerals in the proper proportions. Akwavit fish-eating Animals contains a limited amount of vitamin A and in addition beta-carotene as pro-vitamin A. Beta-carotene is converted into Vitamin A as the animal requires.

High levels of thiamine help prevent thiamine deficiency. This is particularly important when feeding the animals dead fish, as decomposition enzymes are present that specifically target thiamine. Thiamine must be provided in the feed every day, as it compensates for any lack of the vitamin and so prevents any attack on the central nervous system.

The tablets have a dividing line, making it easy to provide a half dose.

Akwavit Dolphins

Product number	692506
Product form	tablets
Content	100 tablets

Feed supplement specially developed for dolphins. It contains a balanced level of vitamins and minerals. Currently it does not contain vitamin A. This is because research has shown that levels of vitamin A in the blood are naturally lower in the wild than in captivity. Vitamin E has been reduced to avoid any overdose. Thiamine vitamin B1 is likewise sufficient for lactating dolphins. In addition, it contains magnesium needed to develop healthy bones and to play its role in the muscular system and in the nervous system.

The tablets have a dividing line, making it easy to provide a half dose.



Zoo Specialties Akwavit

Akwavit Pinnipeds

Product number	692006
Product form	tablets
Content	100 tablets

Feed supplement specially developed for pinnipeds, such as seals, robs, sea lions and walruses. Akwavit Pinnipeds contains a balanced level of vitamins and minerals along with natural antioxidants. In the form of pro-vitamin A, it contains beta-carotene. This is then turned into vitamin A as the animal requires. High thiamine vitamin B1 content helps prevent thiamine deficiency.

Akwavit Pinnipeds contains various natural antioxidants: grapeseed extract, lutein, zeaxanthine and alpha lipids. These antioxidants are linked to various health aspects for fin-footed animals and contribute towards making vitamin E and C more effective.

- Current focus on health aspects includes:
- > UV-induced damage to lens and skin
 - > Support for the wound-healing process and protection against adverse reactions to infection
 - > Reduction in physical complaints due to the ageing process

The tablets have a dividing line, making it easy to provide a half dose.



Akwavit Shark

Product number	691506
Product form	tablets
Content	100 tablets

Feed supplement specially developed for elasmobranch fish-types such as sharks and rays. It contains a balanced level of vitamins and minerals. Akwavit Shark contains high amounts of iodine and vitamin C as well as chalk weed: a natural source of minerals that ensures the presence of an easily absorbable form of calcium. Akwavit Shark contains only limited amounts of vitamin A as well as beta-carotin in the form of pro-vitamin A. Beta-carotin is transformed into vitamin A as the animal requires.

The tablets have a dividing line, making it easy to provide a half dose.

Akwavit Basic Liquid

Product number	6911
Product form	liquid
Content	0,5 ltr

Feed supplement for fish-eating animals. Contains vitamin E as antioxidant to enhance resistance and health. Contains thiamine vitamin B1 to prevent thiamine deficiency. This is particularly important when feeding the animals dead fish, as decomposition enzymes are present that specifically target thiamine. Thiamine should be provided daily in the feed to prevent any shortfall and any subsequent attack on the central nervous system.

Akwavit Basic Liquid comes in the form of a fluid.

Special feed for zoo animals

ZOO
SPECIALTIES



Nature's best  best results!

www.kasperfaunafood.nl