

IF YOUR ANIMAL COULD CHOOSE

KNZ™



I WILL  
TAKE  
THE SALT  
I NEED



Nouryon



*“I can’t maintain a high production without consuming salt. I need salt for different body functions, like producing saliva. I need saliva to digest roughage. Salt is an essential part of my nutrition, with an enormous impact on my health, production level, fertility, and appetite.”*

## **INDIVIDUAL NEED**

Sheep with a mineral deficiency lick on all kinds of objects like wood, dirt and rocks. They can also start to eat toxic amounts of poisonous plants. For this reason, the provision of salt via the ration is of high importance for the health of sheep. How can you make sure that every sheep takes the right amount of salt to be able to stay healthy and to have a high production? Adding salt to the ration is not a guarantee for success, because the need of salt varies between sheep. It depends on factors like weight, age and production level. How do you adjust the amount of salt if the ration composition changes or if the temperature rises from 22 to 26°C?

## **SELF-REGULATION**

Nature has the solution. As long as she has access to salt, a sheep will take exactly what she needs. By providing your herd with KNZ™ SHEEP salt licks, you give your sheep access to high-quality vacuum salt, which is purified. Moreover, KNZ SHEEP salt licks are produced without adding artificial colorings, flavors, sweeteners, molasses, or aromatics. This way, sheep are not tempted to take more than they need.

## **TRACE ELEMENTS**

KNZ SHEEP salt licks contain purified vacuum salt of the highest quality. On top of this, all other essential minerals are provided in the lick. For grazing herds, these minerals are an important addition to fresh pasture. In the barn, these nutrients provide an additional support for good health. This way, KNZ salt licks boost every sheep’s health and production level. KNZ salt licks can also be used by goats.

A sheep needs the following elements in order to be in good health and production:

### **Mg** Magnesium

Magnesium is indispensable for the health of sheep. A mineral that, among other things, ensures healthy nerve cells, strong bones, and good muscle formation. It also prevents grass staggers in sheep.

### **Zn** Zinc

Zinc plays an essential role in many body processes of sheep. In this way, the element is vital to a good metabolism and disease resistance. Zinc is also essential for the development of wool, and strong bones.

### **Fe** Iron

Iron improves the performance of organs and tissues. It also plays an important role in the transportation of oxygen. Iron is vital to prevent anemia.

### **I** Iodine

The body does not produce iodine. It needs to be supplemented in the ration. Iodine is important for basal metabolism by producing thyroxin by the thyroid gland. Iodine also prevents goiter in newborn lambs.

### **Se** Selenium

Selenium plays an important role in the fertility and the production of lambs. It protects against cell damage, prevents muscle problems, and enhances the effectiveness of iodine. Selenium also reduces the occurrence of white muscle disease.



**SHEEP**



## **HEALTHIER ANIMALS**

With the right care sheep have a higher production level. KNZ salt licks can improve the welfare and health of your herd. In this way, sheep have a higher milk yield and meat production, better wool quality, and more lambs. Consequently, KNZ salt licks contribute to a better return on your investment.

**KNZ™ SHEEP** is specifically developed for sheep. In addition to salt and magnesium, it contains essential trace elements like zinc, iron, iodine, and selenium.



## KNZ SALT LICK ASSORTMENT

		BASIC only salt	UNIVERSAL	STANDARD extra selenium	ELEMENTS PLUS grazing cattle	FERTILITY	BIOTIN claw health	UNIVERSAL MULTI extra iron	JUNIOR young cattle	HORSE	SHEEP	WILD
SALT (NaCl) %		100	> 99	> 99	> 97	> 99	> 98	> 99	> 90	> 96	> 98	> 98
SODIUM %		39,3	39,0	39,0	28,2	39,1	38,8	39,1	35,1	37,8	38,8	38,8
MAGNESIUM %		-	0,2	0,2	0,2	-	0,1	0,2	5,0	2,0	0,2	0,2
ZINC mg/kg		-	810	810	10.000	-	500	810	4.000	1.400	5.000	800
COPPER mg/kg		-	220	220	1.500	-	150	-	2.500	150	-	2.500
IODINE mg/kg		-	100	100	100	300	100	50	100	60	300	50
SELENIUM mg/kg		-	10	20	10	23	20	10	10	10	10	25
SELENIUM YEAST mg/kg		-	-	-	-	2	-	-	-	-	-	-
IRON mg/kg		-	-	-	-	-	-	750	500	200	500	700
VITAMINE A IU		-	-	-	-	-	-	-	225.750	-	-	-
VITAMINE D3 IU		-	-	-	-	-	-	-	51.150	-	-	-
VITAMINE E IU		-	-	-	-	1.000	-	-	380	-	-	-
VITAMINE H/ BIOTIN mg/kg		-	-	-	-	-	150	-	-	-	-	-
SUITABLE FOR USE IN ORGANIC FARMING		✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓

## KNZ QUALITY

KNZ salt licks are produced by Nouryon (formerly known as AkzoNobel Specialty Chemicals). This company has more than 100 years of experience in products based on purified vacuum salt of the highest quality. The hardness of the licks ensures that they don't disintegrate easily, not even when they are almost finished. Moreover, the licks have been pressed in such a way that no adhesive agent such as molasses is used. So, the sheep will never be tempted to take more than they need.

## INSTRUCTIONS FOR USING SALT LICKS:

- A salt lick of 10 kg contains a sufficient amount of minerals for 15 sheep.
- Hang the salt lick on chest height and near a water source.
- Ensure that sheep can always access clean water.

## LICK HOLDER

The 10 kg lick holder is made of durable plastic material and does not rust. The holder can easily be hung in the barn or meadow. The fastening pin is able to stand the force of sheep licking.



# KNZ™

KNZ customer service  
Postbus 9300  
6800 SB Arnhem  
The Netherlands  
Tel: +31 88 96 92 443  
knz@nouryon.com  
www.knzsalt.com

KNZ produces licks for many different animals, please ask your supplier for more information



## YOUR SUPPLIER



Nouryon