



PRODUCTS FOR CATTLE

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cattle sector



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HL HAMBURGER
LEISTUNGSFUTTER GMBH 

This is HAMBURGER LEISTUNGSFUTTER GmbH

We are leading manufacturer and supplier of special feeds together with compound feeds and pet food for the German and overseas markets. With our headquarter in Hamburg, subsidiary in Poland, joint ventures in Croatia and Bulgaria and trading partners in numerous countries, we are active around the world. Our company has a tradition of more than 140 years in the production

of animal feed. We produce a wide range of products of the highest quality. Our core brands PANTO®, IBEKA®, Wisan® and ADDIFERM® exceed expectations through their quality, performance and cost-effectiveness. In the raw material refining sector, we are market leaders with our Wisan products and are constantly developing innovative solutions.

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ADDIFERM® N – Slow-release nitrogen source

ADDIFERM® N is a combination of feed urea and dextrose specially coated according to a company-own process.

The rumen microbes are able to produce high quality protein from nitrogen and energy in the rumen. The combination with dextrose provides the fibre-degrading rumen bacteria with the energy they need at the same time.
ADDIFERM® N:

- Is a non-protein-nitrogen source for TMR
- Achieves better roughages:concentrate ratio
- Optimizes the ruminal nitrogen balance
- Optimal use in high energy rations

Coated urea

Slow release in the rumen

Balancing of the ruminal N-balance

Feeding recommendation:
Young cattle from 6 months
35 – 140 g/day

Transition and high yielding dairy cows
50 – 160 g/day

Fattening bulls, young ruminating animals, heifers
50 – 140 g/day

Ingredients / Additives:	
Crude protein	248 %
RNB	394,5 g
Urea	850 g
Crude fat	11,70 %
NEL	3,4 MJ



ADDIFERM® Mykosorbin – Mycotoxin adsorber and immune system mobiliser

Mycotoxins from fungi (mould) like DON, ZEA, Aflatoxin and Citrinin affect animal health and cause high economic losses in livestock farming. Often, exposure to mould toxins is not so obvious and can simply lead to “inexplicable” underperformance.

Our solution – ADDIFERM® Mykosorbin:
Contains special components such as purified diatomaceous earth, bentonite, seaweed meal, yeasts and 1,3–1,6-β-D-glucan and mannan-oligosaccharides. This combination binds broad spectrum of mycotoxins and acts as immune system mobilizer.

Feeding recommendation:
ADDIFERM® Mykosorbin is used at 50 – 150g per animal and day in dairy cows and cattle for fattening.

Ingredients / Additives:	
Crude protein	7,50 %
Crude fat	2,00 %
Crude ash	57,00 %
Crude fiber	1,50 %



ADDIFERM® Stabil – TMR stabilizer

Ambient temperatures above 24 °C can trigger heat stress in cows. In addition, higher temperature promotes the growth of yeasts and moulds in forages leading to significant energy losses and worse digestibility. Feed intake, milk performance and health are negatively affected by the low quality of the ration.

Our solution- ADDIFERM® Stabil:

- Prevents undesirable growth of yeasts and moulds in forages
- Prevent re-heating
- Improves the stability of TMR
- Improves feed intake and animal health



For a balanced feeding



Powerful animal nutrition



Innovative manufacturing process

Feeding recommendation:

1 kg to each tonne of fresh matter of total mixed ration. The calculation of new ration is not necessary.

Ingredients / Additives:

Crude fat	2,90 %
Crude ash	58,00 %
Sodium	13,00 %



ADDIFERM® Boost – an upgrade for each ration!

ADDIFERM® Boost upgrades any ration by adding the exactly right amount of high-quality ingredients. Our new product is a solution of the most important problems: hooves, digestibility and fertility.

ADDIFERM® Boost stands for:

RUMEN DIGESTIBILITY	FERTILITY	HOOF HEALTH
- Aspergillus oryzae - Saccharomyces cerevisiae	- Selenium - β-carotene - Vitamin E	- Biotin - Zinc

A combination of the high available organic trace elements covers 15% of daily requirements. Organic trace elements are especially required at the acidosis risk and iron-rich water.

Feeding recommendation:

100 g per cow/day. The calculation of new ration is not necessary.

Ingredients / Additives:

Crude protein	3,8 %
Crude fat	2 %
Crude ash	68 %
Crude fiber	1,5 %
Ca	4,8 %
Vitamin E	1.000 mg
Biotin	100.000 mcg
β-carotene	1000 mg
Cu (org)	500 mg
Zn (org)	2500 mg
Mn (org)	1500 mg
Se (org)	15 mg
Saccharomyces cerevisiae	200x 10 ⁹ CFU

ADDIFERM® LH – Optimisation of difficult feeding situations

ADDIFERM® LH is a feed supplement for cattle made from a twice fermented, gently dried yeast and a live yeast concentrate. This yeast combination stimulates fermentative digestion of nutrients and microbial biomass.

Creates a healthier, improved and more diverse rumen environment, improves the digestibility of nutrients in the rumen and strengthens the immune system.

Our solution – ADDIFERM® LH:

- Acts as a buffer against rumen acidosis
- Extends the useful life
- Prevents hoof damage through natural biotin
- Stimulates the body's own natural defences
- Increases feed intake
- Improves feed conversion
- Promotes fertility

Feeding recommendation:

Dairy cows	100 g/day
Bulls	40 g/day

Ingredients / Additives:

Crude protein	13,70 %
Calcium	0,20 %
Magnesium	29,70 %

Crude fat	5,70 %
Crude fiber	2,80 %
Crude ash	58,50 %
Saccharomyces cerevisiae	400x10 ⁹ CFU



ADDIFERM® Carotin – Improve the fertility

Carotene deficiency in dairy cows often causes fertility problems. This is reflected in a delayed ovulation, indistinct heat symptoms, ovarian cysts and / or early abortion. This leads to faulty insemination and high economic losses.

Our solution – ADDIFERM® Carotin:

- High content of β-carotene to balance ration-related carotene deficiencies
- Combined with vitamin E to stabilize β-carotene in metabolism

Feeding recommendation:

100 – 200 g ADDIFERM® Carotin 3 weeks before calving until determination of renewed pregnancy

Ingredients / Additives:

Crude protein	5,50 %
Crude fat	2,50 %
Crude fiber	2,10 %
Crude ash	60,00 %

Calcium	1,00 %
Sodium	4,00 %
β-Carotin	2.000 mg
Vitamin E	1.000 mg



ADDIFERM® Multipuffer – The multifunctional rumen buffer

ADDIFERM® MultiPuffer is a special combination of active buffer substances, stabilizing yeast and tasty citrus extract. Through this combination, pH value fluctuations are reduced and the growth of the existing rumen microbes is encouraged.

ADDIFERM® MultiPuffer - areas of application:

- Heat stress
- Low-structure rations and lack of basic fodder
- Separate concentrate allocation
- High grain content in the ration
- Too humid forage

Feeding recommendation:	
150–250 g/cow should be used in a total mixed ration and fed additionally to a mineral feed.	
Ingredients / Additives:	
Crude ash	85,00 %
Crude protein	4,00 %
Sodium	2,00 %
Magnesium	10,00 %
DCAB	409 meg



ADDIFERM® KalbAcid – Combination of organic acids for stabilisation of the calf milk feed

A highly effective, dry mixture of synergistically acting organic acids for acidifying colostrum, milk replacer and whole milk feeds.

ADDIFERM® KalbAcid stands for:

- Safer to handle than liquid formic acid
- Lowers the pH value of the milk
- Has a bacteriostatic effect inhibits the development of undesirable germs (summer months!)
- Positive influence on the animals` intestinal flora
- E. coli diarrhoea is reduced
- Hygienic improvement of the milk

Results of use of ADDIFERM® KalbAcid:

- Improved vitality of the calves
- Optimal development and growth
- High daily gains

ADDIFERM® KalbAcid should be added into the milk feed as follows:	
Biest, whole and skimmed milk 10 g -> 1 l drinker (~1/2 measuring cup)	
Ingredients / Additives:	
Calcium	6,00 %
Sodium	6,00 %
Fumaric acid	
Citric acid	
Sorbic acid	
DL- Malic acid	
Lactic acid	

Wisan® Raps – High quality protected protein

Wisan® Raps is a refined raw material produced by company`s own method.

The starting material is high-quality 00 rapeseed from German oil mills. This healthy, domestic raw material is subjected to exclusively physical processing - without the use of chemical substances.

The Wisan® process changes the protein structure. The biological activity of the protein fraction changed by the Wisan® process makes the feed protein of a ration more usable, e.g. the availability of amino acids. This has a positive effect on both milk yields and meat yields.



Feeding recommendation:	
1–2 kg /cow/day. The goal is a UDP rate in the total mixed ration 30–35%. 40 g/day	
Ingredients / Additives:	
Crude protein	34,00 %
nXP	320 g
RNB	3,2 g
UDP	62,00 %
Crude fat	3,90 %
Crude fiber	12,00 %
NDF	280 g
ADF	200 g
Stärke + Zucker	13,00 %
Crude ash	7,00 %
NEL	6,6 MJ
ME	10,7 MJ



Wisan® 44 – High quality combination of protected protein and feed urea

Wisan® 44 is a combination of rapeseed extraction meal and urea that is thermally treated in our special feed plant. It is an equivalent alternative to soybean meal. No components are used in this product that have to be labelled as genetically modified under feed law.

What are the advantages of Wisan® 44?

- Reasonably priced alternative to soybean meal
- Slower protein degradation in the rumen
- Liver relief due to less ammonia flooding
- Lower milk urea content
- High nXP content
- Perfect for energy-rich rations based on cereals and maize
- High taste acceptance

Feeding recommendation:	
Use according to ration calculation as a component in the TMR. 1– 3 kg per/cow/day.	
• Wisan® 44 may only be fed to animals with a fully developed rumen (not to calves in the drink period): starting from approx. 2 weeks after weaning or at least 100 kg live weight. • Start slowly at 0,5 kg per animal per day • Maximum 3 kg Wisan® 44 per animal and day to ruminating cattle.	

Ingredients / Additives:	
Crude protein	44,00 %
nXP	345 g
UDP	55,00 %
RNB	15,2 g
Crude fat	3,80 %
Crude fiber	11,50 %
Starch + sugar	12,50 %
Crude ash	6,50 %
NEL	6,3 MJ
Crude ash	7,00 %
NEL	6,6 MJ
ME	10,7 MJ

Wisan® Titan – Sustainable, valuable feed protein

Wisan® Titan is a special raw material from HL Hamburger Leistungsfutter, which is produced in our plant according to a proprietary, purely physical process.

How is Wisan® Titan manufactured?
The starting material is 00-rape seed from German oil mills. This rapeseed is physically processed in several steps. This procedure in combination with the Wisan® process results in a highly efficient, protein-rich product for feeding high-performance cows.

Feeding recommendation:	
1–2 kg /cow/day. The goal is a UDP rate in the total mixed ration 30-35%.	
Ingredients / Additives:	
Crude protein	40,00 %
nXP	330 g
RNB	11,2 g
UDP	60,00 %
Crude fat	4,50 %
Crude fiber	8,00 %
NDF	170 g
ADF	95 g
Stärke + Zucker	15,00 %
Crude ash	8,00 %
NEL	6,8 MJ



Wisan® Lein – Treated linseed for vitality and safety

Wisan® Lein is a special product from HL Hamburger Leistungsfutter GmbH. It is a linseed based special feed rich in Omega-3- fatty acids. High digestible, tasty and free from antinutritional substances.

Positively affect young stressed animals, due to the activated linseed mucilage. The mucous substances are able to line the intestine from the inside and cover small injuries, preventing the entry of the microorganisms. The Ω-3 fatty acids improve the immune status and fertility. The content of Ω-3 fatty acids in foods of animal origin such as milk, meat and eggs can be significantly increased using Wisan® Lein.

Wisan® Lein was also subjected to a preservation during the manufacturing process. In this respect, the unsaturated fatty acids in the product are no longer as “sensitive to oxidation” as they are with crushed, untreated linseed.

Feeding recommendations:	
Wisan® Lein is suitable for all animal species. 5–10% in the prestarter feed.	
Ingredients / Additives:	
Crude protein	16,50 %
Lysine	0,67 %
Methionine	0,34 %
Threonin	0,65 %
Tryptophan	0,25 %
Crude fat	25,50 %
Crude fiber	7,00 %
Starch + sugar	28,00 %
ME-Cattle	14,9 MJ



PANTO® Power Mix – Energy concentrate for high performance cows

PANTO® Power Mix is created to solve the problem with the low energy intake in the first lactation third.

- PANTO® Power Mix stands for**
- Higher energy density in feed
 - Wide energy spectrum in rumen
 - High feed acceptance
 - Higher milk quantity
 - Better health
 - Better fertility

- PANTO® Power Mix is characterized by**
- Different energy sources
 - Very good flavour and smell
 - Excellent taste
 - Rumen protected omega-3-fatty acids



High palatability



Stimulates metabolism



High Milk yield

Feeding recommendations:
PANTO® Power Mix can be feed up to 1000g per cow and day, depending of the ration type.

Ingredients / Additives:	
Crude fat	46,00 %
Stärke	12,00 %
Zucker	20,00 %
Crude protein	8,00 %
NEL	17,0 MJ
ME- Cattle	22,0 MJ



PANTO® POTENT – protein concentrates for high performance cows

PANTO® POTENT group are biologically effective special feeds with the active substance carrier PANTO® SOLUFERT - a vegetable yeast fatty acid concentrate with a high proportion of polyunsaturated fatty acids (omega-3 fatty acids), a B-vitamin complex, functional aromas and organically bound trace elements. This combination helps improve fertility, improve health and increase longevity in dairy cows.

- PANTO POTENT® stands for:**
- High fertility
 - Increase in milk yield
 - Metabolic relief through rumen-stable proteins
 - Improved animal health and longevity
 - Various protein sources



With active ingredient concentrate Solufert®



Innovative manufacturing process



High milk yield



PANTO® POTENT Duo – high quality protein concentrate

PANTO POTENT® Duo stands for:

- Noticeably oestrus with insemination success
- Improved quality of follicles
- Increase of milk performance
- Metabolic relief through protected protein
- Hemodynamic stabilization and reducing of stress
- Realization of high level of UDP in total ration



Feeding recommendations:

At least should be fed 2,5 kg PANTO-POTENT® Duo per cow and day in the high performance period till proven pregnancy.

It can also be used in dry period and pre- calving period, because the calf in the womb needs high valuable amino acids.

Ingredients / Additives:

Crude protein	36,00 %
UDP	50 %
nXP	300 g
RNB	9,6 g
Crude fat	7,00 %
Crude fibre	8,50 %
Crude ash	7,00 %
Starch + Sugar	15,50 %
Energy	7,5 MJ NEL

PANTO® POTENT Trio – high quality protein & energy concentrate

PANTO® POTENT Trio stands for:

- Noticeable estrus with higher fertilization success, stable cycles and lower embryos motility I
- Improved quality of follicle
- Increase of milk performance
- Metabolic relief through the rumen protected proteins
- Marked estrus symptoms, stable cycles and lower Embryo mortality
- Metabolic stabilization and reduction of stress
- Improved animal health and useful life

-> balanced energy- protein ratio for high-quality energy-protein supplement with Wisan®-Lein

Feeding recommendation:

Minimum 1kg PANTO® POTENT Trio should be fed daily per cow during the high yielding period and 0.5 kg during preparation feeding.

Ingredients / Additives:

Crude protein	24,00 %
UDP	46 %
nXP	210 g
RNB	4,8 g
Crude fat	22,00 %
Crude fiber	8,00 %
Crude ash	7,00 %
Starch	8,50 %
Sugarr	11,00 %
Energie	10,5* MJ NEL



PANTO® Kälbergold milk replacer – the base for successful growth and a long productive life!

PANTO® Kälbergold	Milk components in %	Skimmed milk powder	Whey powder	Protein content in %	Fett in %	Crude fiber in %	Feeding recommendation
K60	>80	60	>20	22,0	15,0	0	Starter drink
K50	>75	50	>25	20,5	15,0	0	Starter drink
K30	>70	30	>40	21,0	15,0	0,05	Universal rearing drink
K15	>70	15	>55	23,0	18,0	0,10	Intensive drink, high protein
K0	>75	0		>75	20,0	0	Skimmed milk-free rearing drink
ImmunoMilk	>75	50	>25	20,5	15,0	0	Vital drink and stable prophylaxis (first 21 - 28 days of life)
HerbaMilk	>75	50	>25	20,5	15,0	0	Herbal power drink for the flu and winter season
StabilMilk	>75	50	>25	20,5	15,0	0	Stable drink, acid complex
Ibeka Milk	>50	0	>50	22,0	16,0	1	Skimmed milk free rearing drink

*All replacers are suitable for bucket and automatic feeders. The use of ADDIFERM® KalbAcid is recommended for storage drinks.

Our recommendation: PANTO® Kälbergold K50

50 % skimmed milk powder+probiotic

PANTO® Kälbergold K50 is a high-quality with a high percentage of skimmed milk powder. The valuable, highly digestible protein in this drink comes exclusively from milk components. PANTO® Kälbergold K50 contains high-quality probiotics to stabilize the intestinal flora.

Characteristics and advantages:

- Particularly suitable as a starter drink directly after the colostrum phase
- High biological value of the protein
- Contains only milk protein
- High growth performance
- High-quality probiotics to stabilize the intestinal flora
- Remains homogeneous even after long periods of standstill and does not tend to settle

Feeding recommendation:

Dosage: 160 – 180 g per litre water
Dissolving temperature: 38 – 42 °C
Feeding temperature: 39 °C



PANTO® Kälbergold K30 – 30 % skimmed milk powder + probiotics

PANTO® Kälbergold K30 is a high-quality and protein-rich universal rearing drink with the best digestibility and acceptance for the entire drinking period after the colostrum phase

Characteristics and advantages:

- Designed for intensive rearing
- High biological value of the protein
- High growth performance
- High-quality probiotics to stabilize the intestinal flora
- Remains homogeneous even after long periods of standstill and does not tend to settle



To stabilize the intestinal flora



High growth performance



Best digestibility and acceptance

Feeding recommendation:

Dosage: 160–180 g per litre water
Dissolving temperature: 38–42 °C
Feeding temperature: 39 °C



IBEKA® MILK – the all-round rearing milk replacer from 4th week of life

IBEKA® MILK is a high-quality milk replacer in the economic range for rearing calves with very good digestibility and excellent acceptance. The product is very tasty and is designed to maximise growth and rumen development from the 4 weeks of life. Vitamins and trace elements are adjusted to different climate conditions. This makes IBEKA® MILK very suitable for use in tropical climates too.

Characteristics and advantages:

- Very good digestive quality
- Easy to prepare and safe to feed
- Excellent acceptance
- Improves immunity
- Constant reliable quality
- Low diarrhoea risk due to lactic acid bacteria
- Low mortality
- Growth promoter with adjusted combination during the rearing

Feeding recommendations:

Dosage: 125–130 g per litre water
Dissolving temperature: 42–45 °C
Feeding temperature: 39 °C



PANTO® MINERAL FEED

Our recommendation: PANTO® Mineral R 61 – for high yielding cows

- High amount of magnesium for the secure supply of magnesium also at unfavourable rumen conditions
- High equipped with vitamins
- Complete supply with all B-vitamins
- High trace element standard
- Very good flavoured
- Is optimal for supplementation of low calcium and phosphorus rations, for example for nutrition with balanced grass and corn contents

Feeding recommendations:

100 – 200 g PANTO® Mineral R 61 per cow and day or dose according to the ration calculation



PANTO® Mineral R 66 – The mineral feed for dry cows without calcium!

Dry period cows make great demands on the arrangement of their rations. That requires a mineral feed especially suited to this phase

Feeding recommendation:

150 g PANTO® Mineral R 66 per cow and day and from 6 weeks before calving until calving, after that fed one PANTO® Mineral suitable to the ration.

PANTO® Mineral R 66 optimally supplies rations of dry period animals because it

- Does not contain calcium
- Is rich in contents of vitamins (esp. vitamin E)
- Has a share of „acidic salts“
- Has a high content of magnesium
- Contains highly available phosphorus sources
- Is coarse structured and free from dust



Overview PANTO® Mineral feed

Complete mineral feed program (vitamin, mineral and trace element supplementation) specially formulated for the requirements of each animal type

Animal group		Dry cows				Calves	Young cattle / lactation		beef cattle
PANTO® Mineral		R56	R65	R66	R76	K86	R57	R77	B71
article no.		355600000	356500000	356600000	357600000	358600000	355700000	357700000	357100000
Characteristics		TS Ca-reduced	TS Saure Salze	TS Ca-free	TS P-reduced	MineralStart	Universal	Universal P-free	for fattening
Ingredients									
Calcium	%	4,0	9,8	0,5	5,0	20,0	23,0	23,0	20,0
Phosphorous	%	5,0	2,1	7,0	1,0	5,0	2,0		2,0
Sodium	%	8,0		7,0	8,0	5,0	8,0	8,0	9,0
Magnesium	%	20,0	3,7	10,0	10,0	2,0	2,0	2,0	7,0
Vitamins									
Vit. A	I.E.	900.000	170.000	900.000	700.000	500.000	500.000	500.000	600.000
Vit. D3	I.E.	150.000	28.000	180.000	180.000	83.000	83.000	83.000	100.000
Vit. E	mg	5.000	3.400	7.000	10.000	3.000	3.000	3.000	2.000
Trace elements									
Copper	mg	1.500	215	1.000	1.000	500	1.500	1.500	800
Zink	mg	8.000	1.700	8.000	8.000	4.000	8.000	8.000	6.400
Manganese	mg	7.500	1.100	5.000	5.000	2.500	5.000	5.000	4.000
Iodine	mg	200	13	60	60	30	60	150	48
Cobalt	mg	40	9	40	40		24	24	32
Selenium	mg	50	10	50	40	25	30	30	40
Recommended dosage	g/animal/day	150 - 200	350-590	150	150	fill 2% of DM intake	100-200	100-200	100-200
Characteristics		Manganese ++	DCAB -6.300	Calcium --	Vitamin E ++	B- Vit/Yeast	basic supply		Mg/Vitamin B1

LACTATING COWS

Animal group		Lactating cows							
PANTO® Mineral		R59	R60	R61	R62	R72	R830	R770	R68
article no.		355900000	356000000	356100000	356200000	357200000	358300000	397700000	356800000
		Calcium Plus	Basic	Metabolism	Udder	Udder	Premium	Premium	for high Fe
				Balance	Balance	P free		high biotine	content in water
Characteristics		Calcium++/ Jod+	Basic supply	Vit. E ++/B-Vit.	Vit.E++	Vit.E++/Jod+	org. trace elements	content+ org. trace elements	org. Cu
							B-Vit.		
Ingredients									
Calcium	%	24,0	20,0	20,0	21,0	21,0	20,0	23,0	20,0
Phosphorous	%	1,0	2,0	3,0	2,0		2,0	3,0	2,0
Sodium	%	8,0	8,0	8,0	10,0	10,0	10,0	7,0	10,0
Magnesium	%	4,0	7,0	7,0	4,0	4,0	5,0	6,0	5,0
Vitamins									
Vit. A	I.E.	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000
Vit. D3	I.E.	150.000	150.000	150.000	150.000	150.000	150.000	150.000	150.000
Vit. E	mg	3.000	3.000	5.000	5.000	5.000	4.000	4.000	3.000
Trace elements									
Copper	mg	1.400	1.500	1.500	1.500	1.500	2.500	2.500	1.500
Zink	mg	8.000	8.000	8.000	8.000	8.000	10.000	10.000	12.000
Manganese	mg	5.000	5.000	5.000	5.000	5.000	4.000	4.000	5.000
Iodine	mg	120	60	60	60	120	100	100	80
Cobalt	mg	40	40	40	40	40	40	75	40
Selenium	mg	50	50	50	50	50	50	50	50
Additives									
B- Vitamins				√			√	√	
Niacin				√			√	√	
Biotine				√			√	√	
org. trace elements							√	√	√
Recommended dosage	g/a&d	150 - 200	150 - 200	150 - 200	150 - 200	150 - 200	150 - 200	150 - 200	150 - 200



Animal group		Lactating cows			
PANTO® Mineral		R89	R64	R74	R88
article no.		358900000	356400000	357400000	358800000
		lime & salt	rumen buffer	rumen buffer P-free	rumen buffer P-free
Characteristics		P- reduced	Sodium Bicarbonate	rumen buffer P- free	org. trace elements / B-Vit
Ingredients					
Calcium	%	23,0	12,0	12,0	21,5
Phosphorous	%	0,5	2,0	0,2	1,0
Sodium	%	10,0	5,0	5,0	10,5
Magnesium	%	2,0	5,0	5,0	3,0
Vitamins					
Vit. A	I.E.	500.000	500.000	500.000	600.000
Vit. D3	I.E.	83.000	83.000	83.000	100.000
Vit. E	mg	2.750	2.500	2.500	2.500
Trace elements					
Copper	mg	750	500	500	1125,00
Zink	mg	4.000	4.000	4.000	4.000
Manganese	mg	2.500	2.500	2.500	2.375
Iodine	mg	30	30	90	30
Cobalt	mg	20	20	20	20
Selenium	mg	25	25	25	25
Additives					
B- Vitamins			√	√	√
Niacin					√
Biotin					√
Cholinchloride			√	√	
org. traces					√
Yeast			√	√	
Buffer substances			√	√	
Recommended dosage	g/a&d	200-400	200-400	200-400	200-400

PANTO® Mineral R 64 RUMEN BUFFER – The mineral feed with brewer’s yeast

PANTO® Mineral R 64 is equipped with a high amount of brewer’s yeast. Together with a high proportion of sodium bi-carbonate, the brewer’s yeast has a buffering effect on the pH-value of the rumen and reduces the development of acidosis.

PANTO® Mineral R 64:

- Sodium bicarbonate and magnesium oxide for the rumen pH stabilization
- For poor structure rations
- For rations with grain proportion
- Yeast
 - stabilizes and increases the metabolism
 - stimulates the microbial biomass and its enzymatic and cellulolytic activity in the rumen
 - improves fertility, heat intensity and conception rate
- Optimal vitamin and trace element content for maximum performance, as well as natural B vitamins from the yeast
- Promotes udder health
- Contains high levels of vitamin E and selenium as well as an antioxidant for fewer cells in milk

Feeding recommendation:
300 g PANTO® Mineral R 64 per cow and day or dosage according to the ration calculation



PANTO® Mineral K 86 – for calves

PANTO® Mineral K 86:

- Is optimally suited to the needs of growing animals
- With brewer’s yeast and B-vitamins for the support of rumen-development
- Equipped with high available raw materials
- Is adapted to new scientific knowledge
- With vitamin E

Lack of Vitamin E can lead to damage of heart and skeleton muscles. Particularly by calves such changes lead to movement disorders and white meat damage. Therefore, you should pay significant attention to the vitamin E supply, because once occurred organic damages are irreversible.

- Good intake through tasty components and best aromatization
- Coarsely granulated and dust-poor
- For the production of farm own calves feed

The advantages of calves rearing feed with PANTO® Mineral K 86 are:

- Early roughage intake
- Support of rumen development
- Optimal growth
- Stimulates immune system
- hard claws and smooth fur



PANTO® MINERAL LICKING BUCKETS

Overview PANTO® Mineral licking buckets

Animal group		Dairy cows / young cattle / suckler cows						Dry cows		Calves
		R94 Ö-L	R91 L	R93 L	R95 L	R97 L	R99 L	R96 L	R98 L	K975 Ls
article no.		359400093	359100091/93	359300093	359500093	359700093	359900097	359600094	359800097	359750096
		EcoLick	Universal	WeideLick	TopLick	GarLick	BigLick	TS-Lick	TS BigLick	HerbaLick
Characteristics		minerals+trace elements	minerals+trace elements	org. trace elements	Vitamins+	fly repellent	extra molasses	vitality	extra molasses	eukalyptus +
									selenium yeast	menthol / Vit.C
Ingredients										
Calcium	%	15,5	15,0	15,0	15,0	14,0	12,0	7,5	4,0	10,0
Phosphorous	%	2,0	2,0	2,0	5,0	2,0	0,5	10,0	2,0	4,5
Sodium	%	10,0	12,0	12,0	9,5	12,0	8,0	10,0	7,0	2,5
Magnesium	%	7,0	6,0	8,0	4,0	6,0	3,0	10,0	14,0	1,0
Vitamins										
Vit. A	I.E.				800.000		200.000	800.000	200.000	25.000
Vit. D3	I.E.			100.000	80.000		40.000	80.000	40.000	4.000
Vit. E	mg				500		500	500	5.000	3.000
Trace element										
Copper	mg	1.170	1.000	1.200	1.000	1.500	2.000	1.000	1.980	40
Zinc	mg	6.000	8.000	8.400	8.000	8.000	3.000	8.000	4.300	1.200
Manganese	mg	2.400	5.000	5.000	5.000	5.000	1.500	5.000	2.000	800
Iodine	mg	65	60	60	60	60	200	60	500	6
Cobalt	mg	40	40	40	40	40	25	40	40	
Selenium	mg	50	50	50	50	50	30	50	32	5
Additives										
B- Vitamines									✓	✓
org. traces				✓		✓			✓	
essential oils										✓
plant extracts										✓
package size	kg	20,0	10,0 & 20,0	20,0	20,0	20,0	50,0	17,5	50,0	7,5



PANTO® Kälbergold Bambino – the pre-starter for calves

PANTO® Kälbergold Bambino is a high-quality pre-starter feed for the very early age of the young calves. Its composition, especially the high content of easy digestible carbohydrates supports the early rumen development. Thereby, the development from suckling calves to resistant ruminants is supported and the early and gentle weaning from the milk replacer is assured.

Characteristics and advantages:

- Easily available and utilizable nutrients
- Mucilage, which protects the wall of intestine and influences the digestion very positively
- Omega-3-fatty acids, support the resistance and health
- High available of amino acids;
- Very tasty and hygienic flawless feed component

Dosage recommendation:

PANTO® Kälbergold Bambino should be fed already during the colostrum period in addition to the milk replacer (from the 3rd day of life). Feed daily fresh ad libitum, during the first days in small portions. Please pay attention to sufficient water supply.

Can be fed to animals in the age till 6 months and till 3 kg/animal/day

PANTO® Kälbergold RumenGo – Tasty dry TMR for calves

PANTO® RumenGo is a high-quality dry TMR for calves in the first year of life, which can be presented during the drinking period.

Characteristics and advantages:

- The chemical stimuli from concentrated feed stimulate the growth of the rumen villi
- Does not contain any moisture components
- Shortly chopped basic forage components, for mechanical stimulation
- High palatability -> faster and higher absorption of solid feed components
- High DM and energy intake
- Improved feeding table hygiene due to high DM content
- Hardly any risk of reheating
- Can be palletized

Recommended use:

Start with PANTO® RumenGo during the drinking period (at the beginning of the 2nd week of life). PANTO® RumenGo can be used as a complete feed for the first 8-12 weeks. In this way, 800g daily weight gain and more can be achieved in the first rearing phase. PANTO® RumenGo can be fed well up to the age of 6 months. The amount per animal and day should not exceed 2.5 kg. For higher feed intake, additional silage should be provided.

PANTO® Kälbergold Kälbermüsli – for crunchy and high value nutrition

PANTO® Kälbergold Kälbermüsli is high-quality muesli originated from selection of best feed materials. It ensures a balanced supply of young calves with all nutrients, minerals and vitamins and it is perfectly suitable for the first feed of very young calves.

Feeding information:

PANTO® Kälbergold Kälbermüsli can be provided to the calf to milk or calf milk replacer for free intake. At the same time should be offered good calves hay.

PANTO® Kälbergold Kälbermüsli

- Is a balanced and complete mixture for manger from Wisan® Raps, thermally treated grain and pellets with vitamins and trace elements
- By the grain treatment becomes heavy digestible starch better and easier available for the calves, that means the digestibility will be better and digestive disorders will be prevented
- The crunchy components as well as the chewable fibre structure from cleaned alfalfa hay stimulates the chewing, which is essential for a good working digestion
- Is enhanced with Wisan® Lein, our hydro-thermally treated linseed, which contains high content of omega-3-fat acids:
 - improves vitality and performance
- The pellets evenly contain all vitamins, minerals and trace elements in balanced ratio
- Very tasty, among others through a special aroma essence



HL HAMBURGER LEISTUNGSFUTTER GMBH



CONTACT

Head of export
Dr. Jens Reimann (DE, EN)
Tel.: +49 40 76692-213
Mob.: +49 179 1312544
jens.reimann@ibeka.com

Sales and Consulting
Bogdan Pilipenko (DE, EN, RU)
Tel.: +49 40 76692-229
Mob.: +49 173 9435416
bogdan.pilipenko@ibeka.com

Anastasia Ostapenko (DE, EN, UA, RU)
Tel.: +49 40 76692-149
Mob.: +49 152 02391087
anastasia.ostapenko@ibeka.com

Vusal Aliyev (DE, EN, AZE, TR, RU)
Tel.: +49 40 76692-224
Mob.: +49 174 3250206
vusal.aliyev@ibeka.com

Bozena Kinska (DE, EN, PL)
Tel.: +49 40 76692-151
Mob.: +49 174 3112672
bozena.kinska@ibeka.com



www.hl-futter.de
HL HAMBURGER LEISTUNGSFUTTER GmbH

HL HAMBURGER LEISTUNGSFUTTER GmbH
Konsul-Ritter-Str. 3 | 21079 Hamburg
E-Mail: export@ibeka.com
Telefon: 040 - 76 69 22 21

Geschäftsführer:
Ralf Löhden, Tomasz Wasik
HR Hamburg B 22573

