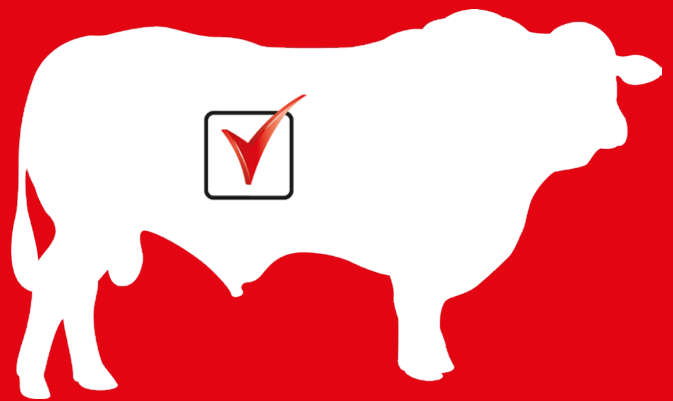
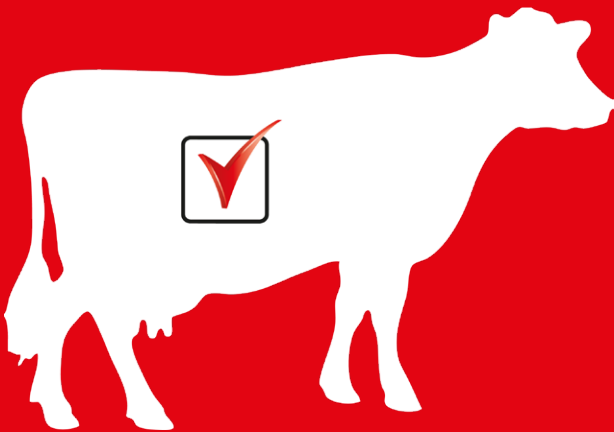
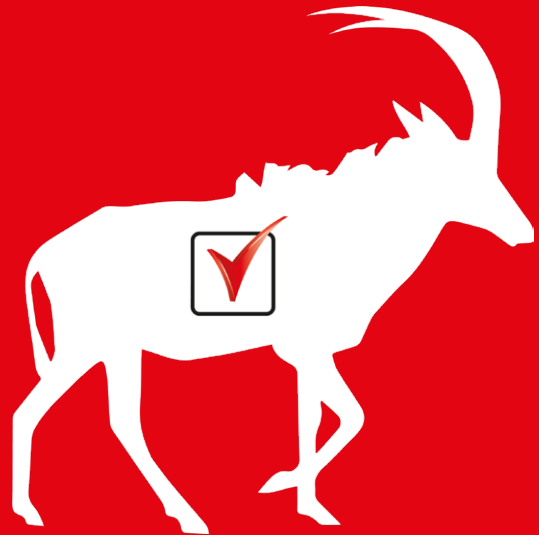


# Meadow Feeds

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# SUMMERPHOS P9

Registration No: V 18596 Act 36 of 1947

**Class:** Mineral Trace Mineral Supplement for Ruminants

**Form:** Meal

## Description

**Summerphos P9** is a rain resistant, ready mixed, phosphorus supplement for ruminants on green summerveld. It contains 9% P (phosphate) compared to a traditional 6% Phosphate – salt lick. **Summerphos P9** contains a molasses by-product to increase palatability. The content of salt has been reduced to support higher intakes. This diet contains 16.5% protein which serves as a rumen stimulant and digestion aid. The additional protein prolongs the usage of **Summerphos P9** into the dry season as a transition lick. Trace elements that are crucial to enhance fertility have been added.

## Benefits

- Rain resistant.
- Increases cow/ewe weight, reproductive performance and calf/lamb performance on lush grazing.
- Better condition score on animals entering the dry season which will result in 1) lower cost of overwintering; 2) higher rate of re-conception in the following season; and 3) better weaning weights.

## Feeding Recommendations

Feed ad-lib as soon as sustainable green summerveld is available and animals are in a positive weight balance. Do not feed if persistent rain falls, rather allow animals to increase daily intakes on sunshine days and aim for the following average expected intakes over time:

Type of animal	Recommended Intake (g/animal/day)	
	Minimum	Maximum
Breeding cows	100	240
Dry cows	100	150
Calves	100	240
Sheep	20	40

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	165	g/kg	Min
Urea	52	g/kg	Max
Moisture	120	g/kg	Max
Calcium	90	g/kg	Min
Calcium	180	g/kg	Max
Phosphorus	90	g/kg	Min
Potassium	7	g/kg	Min
Sulphur**	2	g/kg	Min
Magnesium	25	g/kg	Min
Manganese	1 000	mg/kg	
Copper	250	mg/kg	

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**More than just feed**

Nutrient	Quantity	Unit	Min/Max
Cobalt	2.5	mg/kg	
Zinc	1 000	mg/kg	
Iodine	12.5	mg/kg	
Selenium	3.33	mg/kg	

\*90.4 % derived from NPN

This product contains NPN sources - see NPN warning

\*\* At minimum intake, the levels of these minerals do not meet the minimum requirements for a mineral supplement for cattle as prescribed by Act 36/1947

### NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

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# WINTERBREKER READYMIX

Registration No: V 18595 Act 36 of 1947

**Class:** Protein Trace Mineral Supplement for Ruminants

**Form:** Meal

## Description

**Winterbreker Readymix** is a maintenance lick aimed at the summer rainfall area, which can be used as follows:

1. A maintenance lick for cattle and sheep on low quality roughage.
2. A production lick for cattle and sheep grazing low quality roughage.

## Benefits

- Aims to maintain body weight during the dry season.
- Supplements protein, which is deficient in low-quality natural grazing.
- Acts as a rumen stimulant for better utilisation of roughage.
- Improves condition after the dry season to increase body condition score and enhance the animal's chances of conception.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	420	g/kg	Min
Urea	118	g/kg	Max
Moisture	120	g/kg	Max
Calcium**	8	g/kg	Min
Calcium**	24	g/kg	Max
Phosphorus**	8	g/kg	Min
Sulphur**	4.8	g/kg	Min
Magnesium	5	g/kg	Min
Vitamin A	18 000	IU/kg	
Manganese	300	mg/kg	
Copper	45	mg/kg	
Cobalt	0.75	mg/kg	
Zinc	300	mg/kg	
Iodine	3.75	mg/kg	
Selenium	1	mg/kg	

\*85 % derived from NPN

This product contains NPN sources - see NPN warning

\*\* At minimum intake levels these minerals do not meet the minimum requirements for mineral supplement for ruminants in accordance with Act 36/1947

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## Feeding recommendations

Winterbreker Readymix can be fed straight out of the bag to cattle and sheep:

Type of animal	Recommended Intake (g/animal/day)	
	Minimum	Maximum
Calves	550	600
Sheep	90	100

## Mixing and feeding recommendations

Winterbreker Readymix can be mixed into a production lick for cattle and sheep as follows:

Mixing instructions for a production lick (kg)	
Protein trace mineral energy supplement	
Winterbreker Readymix (V18595)	500
Grain (prot max 80 g/kg)	500
<b>TOTAL</b>	<b>1 000</b>
<b>Composition (g/kg)</b>	
*Protein (miin)	250
Urea (max)	59
% protein ex NPN	71.4
Calcium (max)	12.1
Phosphorus** (min)	5.1
Vitamin A (IU/kg)	9 000
Copper (mg/kg)	22.5
Cobalt (mg/kg)	0.375
Manganese (mg/kg)	150
Zinc (mg/kg)	150
Iodine (mg/kg)	1.875
Selenium (mg/kg)	0.5
<b>Expected intakes (g/animal/day)</b>	
Cattle (min / max)	1 100 - 1 200
Sheep (min / max)	200 - 250

\*\* The levels of these minerals do not meet the minimum requirements of a mineral supplement for ruminants in accordance with Act 36 of 1947.

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## NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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# ELITE SHEEP 33 CONCENTRATE

Registration No: V 15251 Act 36 of 1947

**Class:** Protein Mineral Trace Mineral Energy Concentrate Supplement for Sheep

**Form:** Meal

## Description

**Elite Sheep 33 Concentrate** is a concentrate for the home mixing of licks for sheep. **Elite Sheep 33 Concentrate** has been developed to provide the best possible protein balance in licks for sheep. It contains relatively low levels of urea and high levels of natural proteins. It is high in by-pass protein and especially rich in the essential amino acids methionine and lysine. Due to its unique protein balance, **Elite Sheep 33 Concentrate** will achieve excellent results when used in licks for growing sheep and ewes in late gestation or lactation. Wool breeds will benefit greatly from the composition of this product.

## Benefits

- Contains low levels of urea.
- Contains high levels of natural proteins.
- Can be used in maintenance and production licks for sheep.
- Unique protein balance will achieve excellent results in pregnant or lactating ewes.
- Supports wool production.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	330	g/kg	Min
Urea	35	g/kg	Max
Moisture	120	g/kg	Max
Calcium	10	g/kg	Min
Calcium	25.5	g/kg	Max
Phosphorus	8.5	g/kg	Min
Sulphur	7	g/kg	Min
Magnesium	5	g/kg	Min
Vitamin A	18 000	IU/kg	
Manganese	300	mg/kg	
Copper	37.5	mg/kg	
Cobalt	0.75	mg/kg	
Zinc	300	mg/kg	
Iodine	3.75	mg/kg	
Selenium	1	mg/kg	

\*40.1 % derived from NPN

This product contains NPN sources - see NPN warning

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For further technical assistance, please contact a technical advisor in your area.

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## Feeding recommendations

**Elite Sheep 33 Concentrate** must not be fed as is, but should be mixed according to the instructions in the table below in order to obtain maintenance or production licks for gestating or lactating ewes.

Type of Lick	Maintenance	Production - Late Gestation	Production - Late Lactation
Elite Sheep 33 Concentrate (V15251)	800	700	700
Maize meal (prot max 80 g/kg)		200	190
Salt	200	100	100
Feed lime			10
<b>TOTAL</b>	<b>1 000</b>	<b>1 000</b>	<b>1 000</b>
<b>Composition (g/kg)</b>			
Crude protein (miin)	264	247	246.2
Urea (max)	28	24.5	24.5
% protein ex NPN	40	37.41	37.53
Moisture (max)	120	120	120
Calcium (max)	20.4	17.9	24
Phosphorus (min)	6.8	6.4	6.3
<b>Expected intakes (g/animal/day)</b>			
Sheep (min)	150	200	200
Sheep (max)	200	400	450

## NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

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# BEES LEKKONSENTRAAT

Registration No: V 18604 Act 36 of 1947

**Class:** Protein Mineral Trace Mineral Concentrate Supplement for Cattle

**Form:** Meal

## Description

**Bees Lekkonsentraat** is a winter lick concentrate which can be used to home mix:

1. A winter lick for cattle on dry winter veld;
2. A production lick for cattle during late winter.

## Benefits

- Supplements degradable protein that improves fibre digestion in low-quality roughages.
- Supports rumen microbial activity.
- Improves body condition on poor grazing.
- Stimulates conception at re-breeding.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	800	g/kg	Min
Urea	235	g/kg	Max
Moisture	120	g/kg	Max
Calcium	17	g/kg	Min
Calcium	51	g/kg	Max
Phosphorus	17	g/kg	Min
Sulphur	13	g/kg	Min
Magnesium	5	g/kg	Min
Vitamin A	36 000	IU/kg	
Manganese	600	mg/kg	
Copper	75	mg/kg	
Cobalt	1.5	mg/kg	
Zinc	600	mg/kg	
Iodine	7.5	mg/kg	
Selenium	2	mg/kg	

\*93.1 % derived from NPN

This product contains NPN sources - see NPN warning

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For further technical assistance, please contact a technical advisor in your area.

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**More than just feed**

## Mixing Instructions (kg)

**Bees Lekkonsentraat** must not be fed to cattle in its unmixed form. Mix it thoroughly with the prescribed ingredients. This concentrate must only be fed to cattle. **Bees Lekkonsentraat** can be mixed into winter- or production licks as shown below:

Lick Type	Winter Lick				Production Lick
	Protein trace mineral supplement				Protein energy supplement
	1	2	3	4	5*
Bees Lekkkonsentraat (V18604)	600	500	500	450	300
MCP			25		
Grain (max prot. 80g/kg)		150	100		700
Oilcake (max prot. 400 g/kg) / Multimix 40 Concentrate (V18607)				200	
Salt	400	350	350	350	200
<b>TOTAL</b>	<b>1 000</b>	<b>1 000</b>	<b>975</b>	<b>1 000</b>	<b>1 200</b>
<b>Composition (g/kg)</b>					
Crude protein (min)	480	412	418	444	296
Urea (max)	141	117.5	117.5	105.8	70.5
% protein ex NPN	93.1	90.4	91.3	75.5	75.5
Calcium (max)	30.6	25.5	29.5	23.6	15.4
Phosphorus (min)	10.2*	8.8*	14	8.9*	6.6
Ca:P	3.0:1	2.9:1	2.1:1	2.7:1	2.5:1
Magnesium	3	2.7	2.9	2.8	2.3
Sulphur	7.8	6.7	6.6	6.7	4.6
<b>Recommended intakes (g/animal/day)</b>					
Cattle (min)	400	500	500	600	1 000
Cattle (max)	600	700	700	800	1 200

\* At minimum intake levels these minerals do not meet the minimum requirements for mineral supplement for ruminants in accordance with Act 36/1947

## NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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# Paddock Supplement

Registration No: V 18597 Act 36 of 1947

**Class:** Mineral Trace Mineral Supplement for Ruminants

**Form:** Meal

## Description

**Paddock Supplement** is a NPN free lick for the supplementation of minerals and trace minerals on fertilized and irrigated pastures. This diet contains high levels of by-pass protein, molasses for increased palatability and high levels of trace minerals to supplement deficient pastures. It also contains an ionophore to further enhance growth and better utilisation of the available grazing.

## Benefits

- NPN-free to allow easy supplementation on irrigated pastures.
- High quality by-pass protein and trace minerals.
- High energy density to drive optimal growth from quality pastures.

## Feeding Recommendations

1. This is a supplement and not a feed. Sufficient grazing and / or roughage must be available at all times.
2. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding this lick.

## Type of animal

## Recommended Intake (g/animal/day)

	Minimum	Maximum
Cattle	400	600
Sheep	80	100

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	120	g/kg	Min
Moisture	120	g/kg	Max
Calcium	45	g/kg	Max
Phosphorus	15	g/kg	Min
Sulphur	10	g/kg	Min
Magnesium	15	g/kg	Min
Vitamin A	36 000	IU/kg	
Manganese	600	mg/kg	
Copper	75	mg/kg	
Cobalt	2.5	mg/kg	
Zinc	600	mg/kg	
Iodine	7.5	mg/kg	
Selenium	2	mg/kg	
Monensin	75	mg/kg	

\* Does not meet the minimum requirements as a protein supplement as determined by Act 36/1947

## Warning

This product contains ionophores and must not be fed to horses.

For further technical assistance, please contact a technical advisor in your area.

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# BEEF BOOSTER 18

Registration No: V 15249 Act 36 of 1947

**Class:** Protein-Mineral-Trace Mineral-Energy Supplement for Ruminants

**Form:** Meal / Pellets

## Description

**Beef Booster 18** is a ready mixed protein mineral trace mineral energy supplement for:

1. Rearing of heifers and ewes on high quality roughage and green veld or pastures;
2. Rearing and finishing of weaners and lambs on green veld and pastures;
3. Grasslotting;
4. Creep feed for calves and lambs.

## Benefits

- Stimulates fibre digestion.
- An energy dense supplement that contains high levels of natural protein.
- Contains specialised additives to improve feed efficiency.
- An ideal supplement to enhance growth of young replacement male and female ruminants.
- Maximise the growth of weaners and lambs for maximum profit.

## Feeding Recommendations

**Beef Booster 18** is a ready mixed product that can be fed out of the bag without any further mixing. The product is intended for growing cattle and sheep post weaning, with free access to high quality roughage, summer veld or pastures.

Type of animal	Recommended Intake (g/animal/day)	
	Minimum	Maximum
Cattle	1 200	1 500
Sheep	250	300
Growing heifer	1 200	1 500
Ewes	225	300
Grasslotting weaners	1 200	1 500
Grasslotting lambs	225	250

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	180	g/kg	Min
Urea	20	g/kg	Max
Moisture	120	g/kg	Max
Calcium	8	g/kg	Min
Calcium	24	g/kg	Max
Phosphorus	8	g/kg	Min
Sulphur	5	g/kg	Min
Magnesium	5	g/kg	Min
Vitamin A	9 000	IU/kg	
Manganese	150	mg/kg	

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**KWA-ZULU NATAL** Pietermaritzburg - +27 33 387 2403

**WESTERN CAPE** Paarl - +27 21 807 8700  
 Ladismith - +27 28 551 1950  
**EASTERN CAPE** Gqeberha - +27 41 402 5000  
**AFRICA** Zambia - +260 967 790 404



**More than just feed**

Nutrient	Quantity	Unit	Min/Max
Copper	18.75	mg/kg	
Cobalt	0.38	mg/kg	
Zinc	150	mg/kg	
Iodine	1.88	mg/kg	
Selenium	0.5	mg/kg	
Lasalocid	255	mg/kg	
Zinc Bacitracin	150	mg/kg	

\*39.3 % derived from NPN

This product contains NPN sources - see NPN warning

### Warning

This product contains ionophores and must not be fed to horses.

### NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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**Class:** Protein Mineral Trace Mineral Energy Supplement for Ruminants

**Form:** Meal / Pellets

## Description

**Supreme 20** is a ready-mixed production lick.

## Benefits

**Supreme 20** can be used:

- To increase body condition score before the breeding season;
- As a transition lick between seasons or as an autumn lick supplement;
- To steam up bulls and rams before the breeding season;
- To supplement energy before and after calving / lambing;
- To restore body condition after disease, relieve transit stress or other stress that may lead to loss of weight.

## Feeding Recommendations

**Supreme 20** can be fed as a ready-mixed production lick from the bag as is.

Type of animal	Recommended Intake (g/animal/day)	
	Minimum	Maximum
Cattle	1 200	1 500
Sheep	200	300

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	200	g/kg	Min
Urea	47.5	g/kg	Max
Moisture	120	g/kg	Max
Calcium	6	g/kg	Min
Calcium	18	g/kg	Max
Phosphorus	6	g/kg	Min
Sulphur	2.3	g/kg	Min
Sulphur	3.2	g/kg	Max
Magnesium	5	g/kg	Min
Vitamin A	9 000	IU/kg	
Manganese	150	mg/kg	
Copper	18.75	mg/kg	
Cobalt	0.375	mg/kg	
Zinc	150	mg/kg	
Iodine	1.88	mg/kg	
Selenium	0.5	mg/kg	

\*84.1 % derived from NPN

This product contains NPN sources - see NPN warning

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For further technical assistance, please contact a technical advisor in your area.

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Ladismith - +27 28 551 1950  
**EASTERN CAPE** Gqeberha - +27 41 402 5000  
**AFRICA** Zambia - +260 967 790 404





## NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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# LAMBING LICK

Registration No: V 18598 Act 36 of 1947

**Class:** Protein Energy Trace Mineral Supplement for Ruminants

**Form:** Meal / Pellets

## Description

This is a ready mixed complete protein energy trace mineral production lick for supplementation of:

1. Ewes in late gestation or early lactation;
2. Wool producing breeds throughout the year;

**Lambing Lick** contains high levels of natural protein with a relatively high by-pass protein value.

## Benefits

- **Lambing Lick** stimulates milk production and colostrum quality in lambing ewes.
- Promotes weaning of strong, healthy lambs.
- **Lambing Lick** promotes wool growth.
- Well-suited as a high quality production lick for beef cattle and sheep.

## Feeding Recommendations

**Lambing Lick** can be fed from the bag according to the following guidelines:

Type of animal	Recommended Intake (g/animal/day)	
	Minimum	Maximum
SHEEP (Ewes) (From 6 weeks before lambing)	200	250
SHEEP (Wool producing) (All year round)	200	220
REPLACEMENT HEIFERS (Post weaning)	1 100	1 200

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	250	g/kg	Min
Urea	46	g/kg	Max
Moisture	120	g/kg	Max
Calcium	7.5	g/kg	Min
Calcium	22.5	g/kg	Max
Phosphorus	7.5	g/kg	Min
Sulphur	4.2	g/kg	Min
Magnesium	5	g/kg	Min
Vitamin A	9 000	IU/kg	
Manganese	150	mg/kg	
Copper	18.75	mg/kg	
Cobalt	0.38	mg/kg	

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For further technical assistance, please contact a technical advisor in your area.

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**EASTERN CAPE** Gqeberha - +27 41 402 5000  
**AFRICA** Zambia - +260 967 790 404



**More than just feed**

Nutrient	Quantity	Unit	Min/Max
Zinc	150	mg/kg	
Iodine	1.88	mg/kg	
Selenium	0.5	mg/kg	

\*55.1 % derived from NPN

This product contains NPN sources - see NPN warning

#### NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

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**Class:** Protein Energy Trace Mineral Supplement for Ruminants

**Form:** Meal / Pellets

## Description

This is a ready mixed protein energy trace mineral production lick for supplementation of:

1. Cows that are in a weak condition during the dry season, especially before calving when roughage sources are limited and the quality thereof very low;
2. Bulls and rams, as a steam-up ration from two months before the onset of the breeding season;
3. Heifers and young, growing bulls on low-quality grazing (winter veld).

## Benefits

- **Production Lick** is the ideal product to achieve high growth rates for the rearing of the breeding herd (Heifers) during the dry season.
- Contains high-quality protein, energy and trace minerals to achieve optimal growth under limiting grazing circumstances.
- **Production Lick** will stimulate the rumen to optimize the utilisation of low-quality grazing and roughage.
- Supports condition of suckling cows in the dry season to improve weaning weights and conception rates at re-breeding.

## Feeding Recommendations

**Production Lick** can be fed from the bag according to the following guidelines:

Type of animal	Recommended Intake (g/animal/day)	
	Minimum	Maximum
Sheep	200	250
Cattle	1 200	1 500

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	250	g/kg	Min
Urea	47.5	g/kg	Max
Moisture	120	g/kg	Max
Calcium	6	g/kg	Min
Calcium	18	g/kg	Max
Phosphorus	6	g/kg	Min
Sulphur	3	g/kg	Min
Sulphur	4	g/kg	Max
Magnesium	5	g/kg	Min
Vitamin A	9 000	IU/kg	
Manganese	150	mg/kg	
Copper	18.75	mg/kg	
Cobalt	0.38	mg/kg	
Zinc	150	mg/kg	

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**More than just feed**

Nutrient	Quantity	Unit	Min/Max
Iodine	1.88	mg/kg	
Selenium	0.5	mg/kg	
Lasalocid	200	mg/kg	

\*67.25 % derived from NPN

This product contains NPN sources - see NPN warning

### Warning

This product contains ionophores and must not be fed to horses.

### NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

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**Class:** Energy Mineral Trace Mineral Supplement for Ruminants

**Form:** Block

## Description

**Energy Block** is a source of energy mineral and trace mineral supplementation to all classes of ruminants. Although not classified as a protein source, **Energy Block** supplies sufficient protein to stimulate rumen microbes and increase the voluntary dry matter intake and digestibility of consumed roughages.

**Energy Block** can be supplemented to dairy, cattle and sheep on grazing and/or pastures or complete feeds where sufficient protein is supplied by the dry matter, but where energy, minerals and trace minerals are deficient. **Energy Block** is an ideal supplement before mating, calving / lambing, and where animals need to improve in body condition score.

## Benefits

- A proper source of energy, macro minerals, trace minerals and vitamins.
- Also contains sufficient protein in combination with a high energy level.
- Suitable for use by both cattle and sheep.
- Good intakes are achieved.

## Feeding recommendations

Type of animal	Recommended Intake (g/animal/day)	
	Minimum	Maximum
Cattle	950	1 000
Sheep	180	240

Only to be used for/fed to specified animal species.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	140	g/kg	Min
Urea	30	g/kg	Max
Moisture	160	g/kg	Max
Calcium**	4	g/kg	Min
Calcium**	20	g/kg	Max
Phosphorus**	4	g/kg	Min
Sulphur**	2.5	g/kg	Min
Magnesium	6	g/kg	Min
Vitamin A	18 000	IU/kg	
Copper	37.5	mg/kg	
Cobalt	0.75	mg/kg	
Manganese	300	mg/kg	

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**EASTERN CAPE** Gqeberha - +27 41 402 5000  
**AFRICA** Zambia - +260 967 790 404



More than just feed

Nutrient	Quantity	Unit	Min/Max
Zinc	300	mg/kg	
Iodine	3.75	mg/kg	
Selenium	1	mg/kg	

\*85 % derived from NPN

This product contains NPN sources - see NPN warning

\*\* The levels of these minerals do not meet the minimum requirements of a mineral supplement for cattle and sheep in accordance with Act 36 of 1947.

### NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1 bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

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# SHEEP LEKKER LICK BLOCK

Registration No: V 18127 Act 36 of 1947

**Class:** Energy Mineral Trace Mineral Supplement for Ruminants

**Form:** Block

## Description

**Sheep Lekker Lick Block** is a protein mineral trace mineral energy supplement to be used before, during and after lambing and that could be used all year round for wool breeds. During lambing this product assists the ewe with udder development, milk production and prevents thick colostrum which is often the cause of ewes rejecting lambs. The results will be healthier, stronger and heavier weaned lambs and ewes that will recover quicker and has increased chances of re-conception.

## Benefits

- This is a production lick for sheep in block form.
- Supplies proper amounts of protein with high levels of energy in every bite.
- Achieves sufficient intakes to make a difference.
- Supplies essential nutrients to support high levels of production.

## Feeding recommendations

Type of animal	Recommended Intake (g/animal/day)	
	Minimum	Maximum
Sheep	200	395

Only to be used for/fed to the specified animal species.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	200	g/kg	Min
Urea	40	g/kg	Max
Moisture	160	g/kg	Max
Calcium	5	g/kg	Min
Calcium	20	g/kg	Max
Phosphorus	5	g/kg	Min
Sulphur**	3.2	g/kg	Min
Magnesium	6	g/kg	Min
Vitamin A	18 000	IU/kg	
Manganese	300	mg/kg	
Copper	37.5	mg/kg	
Cobalt	0.75	mg/kg	
Zinc	300	mk/kg	

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Nutrient	Quantity	Unit	Min/Max
Iodine	3.75	mg/kg	
Selenium	1	mg/kg	

\*70.7 % derived from NPN

This product contains NPN sources - see NPN warning

\*\* The levels of these minerals do not meet the minimum requirements of a mineral supplement for cattle and sheep in accordance with Act 36 of 1947.

### NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

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# RUMINANT BLOCK

Registration No: V 18130 Act 36 of 1947

**Class:** Protein Mineral Trace Mineral Supplement for Ruminants

**Form:** Block

## Description

**Ruminant Block** is a protein mineral trace mineral supplement for cattle and sheep on low quality roughage. This product can be used by dairy farmers, cattle farmers and sheep farmers and is specifically useful where all species are found on one farm, grazing the same camps from time to time. **Ruminant Block** is used to supplement the natural shortage of protein during the dry season. **Ruminant Block** also provides the necessary minerals which will lead to improved fertility and reproduction. The balance between natural protein, NPN and energy sources will enhance rumen microbial activity and cause the animal to optimally utilise the available roughage.

**Ruminant Block** is an easy way of supplementation in hard to reach areas, such as mountainous camps, and where animals cannot be visited frequently.

## Benefits

- Supplies protein that is limiting on dry veld.
- Improves the utilisation of low-quality roughages.
- This block allows sufficient intake to stimulate rumen function.
- Supplies minerals, trace minerals and vitamins.
- Can be used by cattle and sheep.

## Feeding recommendations

Type of animal	Recommended Intake (g/animal/day)	
	Minimum	Maximum
Cattle	600	800
Small ruminants	120	140

Only to be used for/fed to specified animal species.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	300	g/kg	Min
Urea	70	g/kg	Max
Fat	25	g/kg	Min
Moisture	160	g/kg	Max
Calcium	12	g/kg	Min
Calcium	36	g/kg	Max
Phosphorus**	12	g/kg	Min
Sulphur**	4	g/kg	Min
Magnesium	6	g/kg	Min
Vitamin A	18 000	IU/kg	
Manganese	300	mg/kg	

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**AFRICA** Zambia - +260 967 790 404



**More than just feed**

Nutrient	Quantity	Unit	Min/Max
Copper	37.5	mg/kg	
Cobalt	0.75	mg/kg	
Zinc	300	mg/kg	
Iodine	3.75	mg/kg	
Selenium	1	mg/kg	

\*77.5 % derived from NPN

This product contains NPN sources - see NPN warning

\*\* The levels of these minerals do not meet the minimum requirements of a mineral supplement for cattle and sheep in accordance with Act 36 of 1947.

### NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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**Class:** Protein Trace Mineral Supplement for Game

**Form:** Block

## Description

**Game Block** is a source of protein and trace minerals to be supplemented to game. **Game Block** can be supplemented to all types of antelope and ruminant game. Aloe powder is included in this product as a standard.

## Benefits

- Easy to administer.
- Palatable.
- Ideal hardness to achieve the required intakes.
- Urea-free.
- Supplies essential nutrients, vitamins, trace- and macro minerals.

## Feeding Recommendations

Feed to game with access to additional roughage. Only to be used for/fed to specified animal species.

Type of animal	Recommended Intake (g/animal/day)	
	Minimum	Maximum
Bigger game	950	1 200
Smaller game	200	300

## Composition

Nutrient	Quantity	Unit	Min/Max
Protein	140	g/kg	Min
Fat	25	g/kg	Min
Moisture	160	g/kg	Max
Calcium	10	g/kg	Min
Calcium	25	g/kg	Max
Phosphorus	10	g/kg	Min
Magnesium	6	g/kg	Min
Sulphur**	1.8	g/kg	Min
Vitamin A	18 000	IU/kg	
Manganese	300	mg/kg	
Copper	37.5	mg/kg	
Cobalt	0.75	mg/kg	
Zinc	300	mg/kg	
Iodine	3.75	mg/kg	
Selenium	1	mg/kg	

\*\* Do not conform to the minimum requirements for a trace mineral supplement for game as prescribed by Act 36/1947

For further technical assistance, please contact a technical advisor in your area.

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# HITECH FEEDLOT 50 CONCENTRATE

Registration No: V 15248 Act 36 of 1947

**Class:** Protein Concentrate for Ruminants

**Form:** Meal

## Description

**Hitech Feedlot 50 Concentrate** is a finishing protein concentrate for ruminants and can be included in different ratios with grain to produce a semi-complete or complete finishing ration for cattle and sheep. **Hitech Feedlot 50 Concentrate** can be mixed to make a complete ration or can be fed in a cafeteria system.

## Benefits

- Supplies the required vitamins and minerals to achieve high growth rates.
- Formulated to extract energy from fibre.
- Stimulates rumen function.

## Feeding Recommendations

For the best results follow the feeding instructions below or consult your **Meadow Feeds** technical advisor.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	500	g/kg	Min
Urea	155	g/kg	Max
Moisture	120	g/kg	Max
Calcium	50	g/kg	Min
Calcium	85	g/kg	Max
Phosphorus	11	g/kg	Min
Sulphur	6.6	g/kg	Min
Magnesium	10	g/kg	Min
Vitamin A	40 000	IU/kg	
Manganese	300	mg/kg	
Copper	50	mg/kg	
Cobalt	1	mg/kg	
Zinc	300	mg/kg	
Iodine	2.5	mg/kg	
Selenium	1	mg/kg	
Monensin	320	mg/kg	
Zinc Bacitracin	200	mg/kg	

\*98.1 % derived from NPN

This product contains NPN sources - see NPN warning

**Continues on next page**

For further technical assistance, please contact a technical advisor in your area.

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**Mixing Instructions (kg)**

Type of Feed*	1	2	3	4
Class of Farm Feed	Finisher for cattle	Finisher for cattle	Complete finisher for cattle	Complete finisher for sheep
Hitech Feedlot 50 Concentrate (V15248)	100	100	100	100
Grain (max prot. 80g/kg)	850	900	600	550
Oilcake (max prot. 400 g/kg) / Multimix 40 Concentrate (V18607)	50		50	100
Roughage	Ad lib	Ad lib	250	250
<b>TOTAL</b>	<b>1 000</b>	<b>1 000</b>	<b>1 000</b>	<b>1 000</b>
<b>Composition (g/kg)</b>				
Crude protein (min)	139	122	129	146
Urea (max)	15.5	15.5	15.5	15.5
% protein ex NPN	34.7	39.6	37.4	33.1
Calcium (max)	8.8	8.7	9.2	9.3
Phosphorus (min)	3.4	3.0	3.3	3.7
Ca:P	2.6:1	2.9:1	2.8:1	2.5:1
Fat (min)	31.25	31.25	27.75	27.50
Fat (max)	31.5	31.5	28.0	28.0
Fibre (min/max)			110.3	110.3
<b>Recommended intakes (kg/animal/day)</b>				
Cattle (1, 2, 3)	10	10	10	
Sheep (4)				1.5

- \* 1 = Light weaners - cafeteria system  
 2 = Heavy weaners - cafeteria system  
 3 = Complete cattle finisher  
 4 = Complete sheep finisher

**Warning**

This product contains ionophores and must not be fed to horses.  
 This feed must never be fed to animals unmixed.

**Continues on next page**

For further technical assistance, please contact a technical advisor in your area.

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**Further Feeding Instructions for Feedlots**

For the best results follow the feeding instruction below or consult your **Meadow Feeds** technical advisor.

It is of critical importance to follow the proper adaptation period when starting on any feedlot ration. It takes a minimum of seven days for the rumen bacteria to change from a high fibre to a high energy ration.

This adaptation process must not be rushed. The following prescribed adaptation period can be followed as a minimum

	Cattle (*kg/animal/day)	Sheep (*g/animal/day)
Day 0–4	2	200
Day 5–6	4	400
Day 7–8	6	600
Day 9–10	8	800
Day 11–12	ad-lib	ad-lib

\*of mixed ration

During the adaptation period it is important that the animals have access to good quality roughage ad-lib and clean water. Proper feed bunk management plays a huge role in feedlot performance - consult your **Meadow Feeds** technical advisor for advice.

**NPN Warning**

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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# MULTIMIX 40 CONCENTRATE

Registration No: V 18607 Act 36 of 1947

**Class:** Protein Trace Mineral Concentrate for Ruminants

**Form:** Meal

## Description

**Multimix 40 Concentrate** is a NPN-free protein trace mineral concentrate to be used to home mix:

1. Energy licks
2. Sheep maintenance protein licks
3. Beef maintenance protein licks
4. Production licks for sheep
5. Production licks for beef

Mixtures 1, 2, 3, 4 and 5 contain NPN sources. Mix and feed strictly according to mixing instructions. See NPN warning for more information.

## Benefits

- More than just a high protein concentrate. Contains vitamins, minerals and trace minerals.
- High-quality protein concentrate.
- Versatile that allows formulation of energy licks, protein licks, production licks and complete feeds.
- Can be used for sheep and cattle.
- Contains no urea, only natural protein.

## Composition

Nutrient	Quantity	Unit	Min/Max
Protein	400	g/kg	Min
Moisture	120	g/kg	Max
Calcium	8	g/kg	Max
Phosphorus	7	g/kg	Min
Sulphur	8	g/kg	Min
Magnesium	5	g/kg	Min
Vitamin A	18 000	IU/kg	
Manganese	300	mg/kg	
Copper	37.5	mg/kg	
Cobalt	0.75	mg/kg	
Zinc	300	mg/kg	
Iodine	3.75	mg/kg	
Selenium	1	mg/kg	

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For further technical assistance, please contact a technical advisor in your area.

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## Mixing and feeding recommendations

Mix and feed according to the instructions in the table below:

Mixing Instructions (kg)					
Type of Feed*	Energy lick (1)	Sheep maint. (2)	Beef maint. (3)	Sheep prod. (4)	Beef prod. (5)
Class of Farm Feed	Protein energy supplement	Protein mineral supplement	Protein mineral supplement	Protein energy supplement	Protein energy supplement
Supreme 20 (V18601)	400				
Multimix 40 Concentrate (V18607)	100	350	200	250	150
Maize meal (max prot. 80g/kg)	400	300	300	550	550
Urea		50	150	20	60
Feedlime			10		10
MCP			40		10
Salt	100	300	350	150	200
<b>TOTAL</b>	<b>1 000</b>	<b>1 000</b>	<b>1 050</b>	<b>970</b>	<b>980</b>
Composition (g/kg)					
Crude protein	152	308	509	206	278.3
Urea (max)	19	50	142.9	20.6	61.2
% protein ex NPN	44.28	46.61	80.57	28.7	63.1
Calcium (min)		2.5*	10.9*	1.9	6.5
Calcium (max)	6.0	2.9	11.1*	2.2	6.6
Phosphorus (min)	3.9	2.5*	9.9	3.0	4.4
Magnesium	3.0	1.8	1.3*	2.0	1.4
Expected intakes (g/animal/day)					
Cattle (min)	1 000		400		1 000
Cattle (max)	1 200		600		1 200
Sheep (min)	200	90		200	
Sheep (max)	250	110		250	

\* At minimum intake, the levels of these minerals do not meet the minimum requirements for a mineral supplement for cattle and sheep as prescribed by Act 36/1947

Mixtures in the table contain NPN sources - see NPN warning.

**Continues on next page**

For further technical assistance, please contact a technical advisor in your area.

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### NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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**Class:** Protein Concentrate for Ruminants

**Form:** Meal

### Description

**HPC 64** is an ionophore-free, low inclusion finishing concentrate for ruminants and is suitable for use in production systems where the use of ionophores is not permitted. The diet can be included in different ratios with raw ingredients listed to produce complete finishing rations for cattle and sheep. **HPC 64** can be used to mix other on-farm feeds. Consult your **Meadow Feeds** technical advisor.

### Benefits

- Low inclusion rate.
- Contains no ionophores.
- Can be used to formulate finishing diets for cattle and sheep.

### Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	640	g/kg	Min
Urea	140	g/kg	Max
Moisture	120	g/kg	Max
Calcium	40	g/kg	Min
Calcium	60	g/kg	Max
Phosphorus	7	g/kg	Min
Sulphur	11.7	g/kg	Min
Magnesium	15	g/kg	Min
Vitamin A	80 000	IU/kg	
Manganese	600	mg/kg	
Copper	100	mg/kg	
Cobalt	2	mg/kg	
Zinc	600	mg/kg	
Iodine	5	mg/kg	
Selenium	2	mg/kg	

\*73.4 % derived from NPN

This product contains NPN sources - see NPN warning

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## Mixing and feeding recommendations

Mix and feed according to the instructions in the table below:

Type of Feed*	1	2
	Adaptation	Finisher
Class of Farm Feed	Complete cattle and sheep	Complete cattle and sheep
HPC 64 (V18146)	100	100
Hominy chop (prot max 90 g/kg)	650	700
Eragrostis	100	200
Lucerne	100	
Molasses meal	40	80
<b>TOTAL</b>	<b>990</b>	<b>1 080</b>
<b>Composition (g/kg)</b>		
Crude protein (miin)	144.5	128.0
Urea (max)	14.14	12.96
% protein ex NPN	32.72	33.88
Calcium (min)	6.5	5.0
Calcium (max)	8.6	7.0
Phosphorus (min)	3.7	4.1
Ca:P	2.3:1	1.7:1
Magnesium	3.1	3.1
Potassium	3.0	1.4
Sulphur	1.5	1.7
Fibre (min)	111.9	111.3
Fibre (max)	115.7	121.3
Fat (min)	55.8	55.1
Fat (max)	59.1	58.3
<b>Expected intakes (g/animal/day)</b>		
Cattle (min)	1 000	
Cattle (max)	6 000	10 000
Sheep (min)*	200	
Sheep (max)*	300	1 500

\* Feed with ad-lib access to roughage or pasture at all times.  
See further feeding instructions for feedlots.

### Warning

This feed is a concentrate and should not be fed unmixed.  
Due to the high concentration of this product, proper mixing practices are crucial to achieve success.

**Continues on next page**

For further technical assistance, please contact a technical advisor in your area.

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## Further Feeding Instructions for Feedlots

For the best results follow the feeding instruction below or consult your **Meadow Feeds** technical advisor.

It is of critical importance to follow the proper adaptation period when starting on any feedlot ration. It takes a minimum of seven days for the rumen bacteria to change from a high fibre to a high energy ration.

This adaptation process must not be rushed. The following prescribed adaptation period can be followed as a minimum

	Cattle (*kg/animal/day)	Sheep (*g/animal/day)
Day 0–4	2	200
Day 5–6	4	400
Day 7–8	6	600
Day 9–10	8	800
Day 11–12	ad-lib	ad-lib

\*of mixed ration

During the adaptation period it is important that the animals have access to good quality roughage ad-lib and clean water. Proper feed bunk management plays a huge role in feedlot performance - consult your **Meadow Feeds** technical advisor for advice.

## NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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# HPC 85

Registration No: V 14077 Act 36 of 1947

**Class:** Protein-Trace Mineral Concentrate for Ruminants

**Form:** Meal

## Description

**HPC 85** is a low inclusion finishing concentrate for ruminants and can be included in different ratios with grain to produce a complete finishing ration for cattle and sheep. **HPC 85** can be fed as a cafeteria system or used to mix other on-farm feeds not adding any extra NPN sources, consult your **Meadow Feeds** technical advisor.

## Benefits

- Low inclusion rate.
- Allows high inclusion of on-farm raw materials.
- Formulates high-quality finishing diets for cattle and sheep.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	850	g/kg	Min
Urea	250	g/kg	Max
Moisture	120	g/kg	Max
Calcium	93.1	g/kg	Min
Calcium	131	g/kg	Max
Phosphorus	21	g/kg	Min
Potassium	5.2	g/kg	Min
Sulphur	10	g/kg	Min
Sulphur	14	g/kg	Max
Magnesium	3.5	g/kg	Min
Vitamin A	80 000	IU/kg	
Manganese	600	mg/kg	
Copper	100	mg/kg	
Cobalt	2	mg/kg	
Zinc	600	mg/kg	
Iodine	5	mg/kg	
Selenium	2	mg/kg	

\*85 % derived from NPN

This product contains NPN sources - see NPN warning

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## Feeding recommendations

Mix and feed according to the instructions in the table below:

Cafeteria system - Cattle and sheep	
HPC 85 (V14077)	50
Maize meal (prot max 80 g/kg)	700
<b>TOTAL</b>	<b>750</b>
<b>Composition (g/kg)</b>	
Crude protein (miin)	131.3
Urea (max)	16.6
% protein ex NPN	36.28
Calcium (max)	6.4
Phosphorus (min)	3.4
Ca:P	1.9:1
Magnesium	1.4
Potassium	3.3
Sulphur	1.6
Monensin (mg/kg)	33.33
Fibre (min/max)	32.7
Fat (min/max)	32.7
<b>Expected intakes (kg/animal/day)</b>	
Cattle	10
Sheep	1.5

\* Feed with ad-lib access to roughage or pasture at all times.  
See further feeding instructions for feedlots.

## Warning

This product contains ionophores and must not be fed to horses.  
This feed is a concentrate and should not be fed unmixed.  
Due to the high concentration of this product, proper mixing practices are crucial to achieve success.

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## Further Feeding Instructions for Feedlots

For the best results follow the feeding instruction below or consult your **Meadow Feeds** technical advisor.

It is of critical importance to follow the proper adaptation period when starting on any feedlot ration. It takes a minimum of seven days for the rumen bacteria to change from a high fibre to a high energy ration.

This adaptation process must not be rushed. The following prescribed adaptation period can be followed as a minimum

	Cattle (*kg/animal/day)	Sheep (*g/animal/day)
Day 0–4	2	200
Day 5–6	4	400
Day 7–8	6	600
Day 9–10	8	800
Day 11–12	ad-lib	ad-lib

\*of mixed ration

During the adaptation period it is important that the animals have access to good quality roughage ad-lib and clean water. Proper feed bunk management plays a huge role in feedlot performance - consult your **Meadow Feeds** technical advisor for advice.

## NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

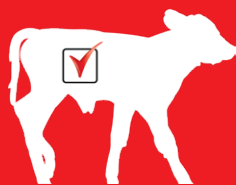
1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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# DAIRY CALF GROWTH 16

Registration No: V 9896 Act 36 of 1947

**Class:** Dairy Calf Grower

**Form:** Pellets

## Description

A semi-complete calf grower feed for young dairy calves from 3 to 6 months of age.

## Benefits

- Highly palatable.
- Carefully selected high quality raw material composition.
- Excellent amino acid profile.
- Improves nutrient utilisation in young calves with active rumens.
- Supports skeletal growth in young calves.

## Feeding Recommendations

- This is not a complete feed and must be fed in limited quantities.
- Roughage or grazing must be available at all times.
- Feed from 3 to 6 months of age.

## Composition

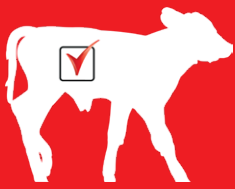
Nutrient	Quantity	Unit	Min/Max
Protein	160	g/kg	Min
Fat	25	g/kg	Min
Fat	80	g/kg	Max
Fibre	90	g/kg	Max
Moisture	120	g/kg	Max
Calcium	16	g/kg	Max
Phosphorus	6	g/kg	Min

For further technical assistance, please contact a technical advisor in your area.

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# DAIRY CALF STARTER 18

Registration No: V 9895 Act 36 of 1947

**Class:** Dairy Calf Starter

**Form:** Pellets

## Description

A semi-complete calf starter feed focused on pre-weaning calves to a minimum of 3 months of age.

## Benefits

- Highly palatable to stimulate voluntary feed intake.
- Actively drives rumen development in the pre- and early-weaned calf.
- Selected high quality raw material composition.
- Formulated to achieve seamless weaning.

## Feeding Recommendations

- This is not a complete feed and must be fed in limited quantities.
- Roughage or grazing must be available at all times.
- Feed from 3 days to 3 months of age.

## Composition

Nutrient	Quantity	Unit	Min/Max
Protein	180	g/kg	Min
Fat	25	g/kg	Min
Fat	80	g/kg	Max
Fibre	90	g/kg	Max
Moisture	120	g/kg	Max
Calcium	16	g/kg	Max
Phosphorus	6	g/kg	Min

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# COMPLETE DAIRY CALF 16

Registration No: V 7416 Act 36 of 1947

**Class:** Complete Calf Feed

**Form:** Pellets

## Description

A complete calf feed from 4 months to a minimum of 6 months of age.

## Benefits

- Selected high quality raw materials.
- Palatable to achieve good feed intakes.
- High quality amino acid profile.
- Synchronised energy and nitrogen utilisation for calves with active rumens.
- Drives skeletal growth in young calves.

## Feeding Recommendations

- A limited amount of additional roughage must be fed with the complete feed.
- This feed must be fed ad-lib.
- Ensure that feed troughs are always full.

## Composition

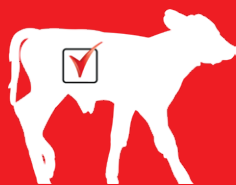
Nutrient	Quantity	Unit	Min/Max
Protein	160	g/kg	Min
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	100	g/kg	Min
Fibre	150	g/kg	Max
Moisture	120	g/kg	Max
Calcium	8	g/kg	Max
Phosphorus	3.5	g/kg	Min

For further technical assistance, please contact a technical advisor in your area.

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# COMPLETE DAIRY CALF 18

Registration No: V 12012 Act 36 of 1947

**Class:** Complete Calf Feed

**Form:** Pellets

## Description

A complete calf feed for pre-weaned calves to at least 4 months of age.

## Benefits

- Highly palatable to stimulate voluntary intake.
- Focused raw material composition.
- Specialised nutrient profiles to achieve high growth rates.
- Drives the different phases of rumen development.
- Seamless weaning.

## Feeding Recommendations

- A limited amount of additional roughage must be fed with the complete feed.
- This feed must be fed ad-lib.
- Ensure that feed troughs are always full.

## Expected Intakes

Achieve a minimum intake of 1 kg/calf/day for 3 consecutive days before weaning.

## Composition

Nutrient	Quantity	Unit	Min/Max
Protein	180	g/kg	Min
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	100	g/kg	Min
Fibre	150	g/kg	Max
Moisture	120	g/kg	Max
Calcium	8	g/kg	Max
Phosphorus	3.5	g/kg	Min

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# COMPLETE SHEEP ADAPTATION FEED 15.5

Registration No: V 17999 Act 36 of 1947

**Class:** Complete Sheep Feed  
Contains Urea @ 2 g/kg max

**Form:** Pellets

## Description

- The ration is fed in the adaption period when feedlotting.
- A maximum of 8.73% of protein is derived from urea.

## Benefits

- Very palatable to stimulate feed intake of receiver lambs at the feedlot.
- Pelletised to limit wastage and improve feed intake.
- Formulated to synchronise energy and protein utilisation in the rumen.
- Limits digestive disturbances and allows easy transitioning to a finisher diet.

## Feeding Recommendations

- The ration is to be fed ad-lib.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	155	g/kg	Min
Urea	2	g/kg	Max
Fat	25	g/kg	Min
Fibre	200	g/kg	Max
Moisture	120	g/kg	Max
Calcium	10	g/kg	Max
Phosphorus	2	g/kg	Min

\*8.73 % derived from urea

This product contains NPN sources - see NPN warning

## NPN Warning

This feed may contain feed-grade urean / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animal's free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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# COMPLETE SHEEP FINISHER FEED 12

Registration No: V 9902 Act 36 of 1947

**Class:** Complete Sheep Feed  
Contains Urea @ 10 g/kg max

**Form:** Pellets

## Description

This ration is a very high-quality complete sheep fattening feed.

## Benefits

- Contains the ideal balance between digestible fibre, fat and starch to achieve optimal growth rates.
- Formulated to optimise rumen function.
- Balanced with sufficient by-pass protein.
- Contains the required vitamins, trace- and macro-minerals.

## Feeding Recommendations

- Start by feeding 300 g per sheep per day plus roughage.
- Increase gradually until the sheep are on ad-lib feeding after 2 weeks.
- To be fed ad-lib with clean fresh water.
- No additional roughage is needed after successful adaptation.
- Vaccinate for Pulpy Kidney before feeding.
- Offer hay or **Meadow Feeds Drought Cubes 10** ad-lib for 4 days before feeding.

## Expected Intakes

Expected feed intake is approximately 3–4% of live body weight.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	120	g/kg	Min
Urea	10	g/kg	Max
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	110	g/kg	Min
Fibre	200	g/kg	Max
Moisture	120	g/kg	Max
Calcium	10	g/kg	Max
Phosphorus	2	g/kg	Min

\*23.9 % derived from urea

This product contains NPN sources - see NPN warning on next page

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**NPN Warning**

This feed may contain feed-grade urean / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animal's free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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**More than just feed**



# ewe AND LAMB 13

Registration No: V 9903 Act 36 of 1947

**Class:** Ewe and Lamb Feed  
Contains Urea @ 10 g/kg max

**Form:** Pellets

## Description

- The ration can be used to maintain the ewe and lamb on veld grazing.
- A maximum of 22.1% of protein is derived from urea.

## Benefits

- Highly palatable.
- The ideal diet to maintain pregnant or suckling ewes and stimulate lambs to eat.

## Feeding Recommendations

- Animals should gradually be adapted to the feed.
- The quantity to be fed depends on the quality and quantity of roughage or grazing available.
- Roughage/grazing should be available at all times.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	130	g/kg	Min
Urea	10	g/kg	Max
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	150	g/kg	Max
Moisture	120	g/kg	Max
Calcium	15	g/kg	Max
Phosphorus	3	g/kg	Min

\*22.1 % derived from urea

This product contains NPN sources - see NPN warning

## NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animal's free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

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# LAMB CREEP PELLETS 15

Registration No: V 17667 Act 36 of 1947

**Class:** Ewe and Lamb Feed

**Form:** Pellets

## Description

This ration is an excellent source of protein, energy, macro- and micro-minerals and vitamins for the young lamb.

## Benefits

- Very palatable to achieve voluntary intake in young lambs.
- Contains no urea because very young ruminants cannot utilise urea efficiently.
- Good protein quality to drive protein deposition.
- Improves rumen development.

## Feeding Recommendations

- The ration can be fed ad-lib to lambs in a creep feeder.
- Feeding should commence when the lambs are two weeks old.
- Lambs must have free access to the feed in the creep feeder.

1. To be fed from day 1 in creep feeders with lactating ewes.
2. To be fed until weaning.

## Expected Intakes

30 kg of balanced feed from birth to 100 days.

## Composition

Nutrient	Quantity	Unit	Min/Max
Protein	150	g/kg	Min
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	150	g/kg	Max
Moisture	120	g/kg	Max
Calcium	15	g/kg	Max
Phosphorus	3	g/kg	Min

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# STUD COMPLETE SHEEP FINISHER 14

Registration No: V 24302 Act 36 of 1947

**Class:** Complete Sheep Feed

**Form:** Pellets

## Description

- A complete sheep diet of high-quality sources of protein and fibre.
- Maximum 10.6% of protein derived from NPN.

## Benefits

- A well-formulated diet from high-quality raw materials.
- Drives frame and muscle growth.
- Ideal balance of degradable and by-pass proteins.
- Synchronised energy and protein utilisation in the rumen.
- Achieve well finished, but not overly fat animals on auction day that are ready to go to work.

## Feeding Recommendations

- Start feeding 300 g/sheep/day plus additional roughage.
- Increase every second day with 200 g/sheep/day for two weeks, until the sheep is on ad-lib feeding.
- It is recommended that a limited amount of good quality roughage is made available daily to ensure gut health.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	140	g/kg	Min
Fat	25	g/kg	Min
Fibre	127	g/kg	Min
Fibre	145	g/kg	Max
Moisture	120	g/kg	Max
Calcium	6	g/kg	Min
Calcium	12	g/kg	Max
Phosphorus	2.5	g/kg	Min
Monensin	125	mg/kg	
Zinc Bacitracin	50	mg/kg	

\*10.6 % derived from NPN

This product contains NPN sources - see NPN warning

For further technical assistance, please contact a technical advisor in your area.

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## NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animals free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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# COMPLETE FEEDLOT FINISHER 11

Registration No: V 9887 Act 36 of 1947

**Class:** Complete Cattle Feed  
Contains Urea @ 10 g/kg max

**Form:** Pellets / Cubes

## Description

- A complete feedlot finisher diet consisting of high-quality sources of protein, energy and fibre.
- Maximum 26.1% of protein derived from urea.

## Benefits

- Cubes limit wastage.
- Manipulated amino acid, energy and fibre fractions to achieve optimal performance.

## Feeding Recommendations

- During the first week additional roughage must be fed to facilitate adaption.
- Feed ration ad-lib.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	110	g/kg	Min
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	110	g/kg	Min
Fibre	200	g/kg	Max
Moisture	120	g/kg	Max
Calcium	12	g/kg	Max
Phosphorus	2.5	g/kg	Min
Urea	10	g/kg	Max

\*26.1 % derived from urea

This product contains NPN sources - see NPN warning

## NPN Warning

This feed may contain feed-grade urean / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animal's free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

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# PHASE C STUD CATTLE FINISHER

Registration No: V 24301 Act 36 of 1947

**Class:** Cattle Finisher Feed

**Form:** Cubes

## Description

- A complete feedlot diet of high-quality sources of protein, energy and fibre.
- Maximum 15.5% of protein derived from NPN.

## Benefits

- Balanced amino acid profile.
- Manipulated fibre fractions.
- High energy density.
- Synchronised utilisation of protein and energy in the rumen.

## Feeding Recommendations

- During the first week additional roughage must be fed to facilitate adaption.
- Feed ration ad-lib with free access to roughage.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	120	g/kg	Min
Fat	25	g/kg	Min
Fibre	110	g/kg	Min
Fibre	200	g/kg	Max
Moisture	120	g/kg	Max
Calcium	5.5	g/kg	Min
Calcium	9	g/kg	Max
Phosphorus	2.7	g/kg	Min
Monensin	26	mg/kg	
Zinc bacitracin	22.5	mg/kg	

\*15.5 % derived from NPN

This product contains NPN sources - see NPN warning

## Warning

This product contains ionophores and must not be fed to horses.

### NPN Warning

This feed may contain feed-grade urean / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animal's free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

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# DROUGHT CUBES 10

Registration No: V 9901 Act 36 of 1947

**Class:** Drought Cubes for Ruminants  
Contains Urea @ 10 g/kg max

**Form:** Pellets

## Description

A cost-effective product with a wide range of uses providing the ruminant (cattle, sheep, goats, and game) with nutrients for optimal production.

## Benefits

- 10 mm cube for ease of feeding and limits wastage.
- Ideal feed to supplement fibre when roughages are limited.
- Contains vitamins and minerals for optimal production.
- Ideal to achieve rumen fill in animals that have travelled long distances.

## Feeding Recommendations

Can be fed ad-lib as a replacement for roughage during periods of drought.

## Expected Intakes

Depending on the circumstances, feed intake will vary from 2 kg/day to a maximum of 8 kg/day.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	100	g/kg	Min
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	120	g/kg	Min
Fibre	200	g/kg	Max
Moisture	120	g/kg	Max
Calcium	3	g/kg	Min
Calcium	15	g/kg	Max
Phosphorus	3	g/kg	Min
Urea	10	g/kg	Max

\*28.7 % derived from urea

This product contains NPN sources - see NPN warning

## NPN Warning

This feed may contain feed-grade urea / NPN sources and thus must be mixed and fed strictly according to recommendations:

1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can be poisoned.
3. Do not feed these feeds indiscriminately with other feed containing NPN. Consult an animal scientist.
4. Mix concentrates thoroughly with the prescribed ingredients.
5. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
6. Ensure that feed troughs are always full and give animal's free access to grazing.
7. A salt-phosphate lick must be fed for a minimum of seven days prior to feeding any animal a NPN containing lick.

For further technical assistance, please contact a technical advisor in your area.

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Ladismith - +27 28 551 1950  
**EASTERN CAPE** Gqeberha - +27 41 402 5000  
**AFRICA** Zambia - +260 967 790 404





# RUMEN KANDY 13

Registration No: V 17783 Act 36 of 1947

**Class:** Utility Feed for Ruminants

**Form:** Pellets

## Description

A cost-effective product with a wide range of uses providing the ruminant (cattle, sheep, goats and game) with nutrients for optimal production.

## Benefits

- Urea free.
- A nutrient-dense supplement when roughages are limited.
- Sufficient nutrient density to achieve optimal production.
- 10 mm cube for ease of feeding.

## Feeding Recommendations

- Do not exceed 3% of live bodyweight.
- Feed level dependent on the function.
- Offer good quality hay ad-lib.
- Consult your **Meadow Feeds** technical advisor.

## Expected Intakes

Feed intake should not to exceed 3% of live bodyweight.

## Composition

Nutrient	Quantity	Unit	Min/Max
Protein	130	g/kg	Min
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	110	g/kg	Min
Fibre	200	g/kg	Max
Moisture	120	g/kg	Max
Calcium	10	g/kg	Min
Calcium	12	g/kg	Max
Phosphorus	5	g/kg	Min

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# HERBIVORE SWEETFEED 15

Registration No: V 19426 Act 36 of 1947

**Class:** Utility Diet for Cattle, Sheep, Horses and Game (Urea Free)

**Form:** Pellets

## Description

- A complete feed for ruminants, horses and game to achieve optimal production.
- Not a maintenance diet.

## Benefits

- Urea free.
- Safe to use for ruminants, horses and monogastric game species.
- Contains high levels of protein and energy to drive production.

## Feeding Recommendations

### Cattle

- Finishing & Complete: Ad-lib (after adaptation) with free access to roughage or grazing.
- Bulls: Feed 1–5 kg/bull/day or a maximum of 1% of body weight with free access to roughage or grazing.
- Lactating Dairy Cows: The quantity of feed will depend on a) the quality and quantity of pasture and/or roughage; b) the stage of lactation; c) milk- and butterfat yield.
- Feed a maximum of 10 kg/cow/day to small frame breeds and 15 kg/cow/day to large frame breeds.

### Sheep

- Finishing & Complete: Ad-lib (after adaption) with free access to roughage or grazing.
- Ewe & Lamb feed: Feed a daily maximum of 1% of the ewe's body weight as supplementary feed to lactating ewes, or as a flush feed from 3 weeks before to 3 weeks after mating, together with roughage and/or pasture.

### Horses

- Feed 4–8 kg per head per day, depending on size and work rate.

### Game

- Feed 1–3 kg per head per day for large game.
- Feed 200–600 g per head per day for small game.
- Ensure free access to sufficient grazing or roughage.

## Composition

Nutrient	Quantity	Unit	Min/Max
*Protein	150	g/kg	Min
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	110	g/kg	Min
Fibre	120	g/kg	Max

Composition continues on next page

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Nutrient	Quantity	Unit	Min/Max
Moisture	120	g/kg	Max
Calcium	8	g/kg	Min
Calcium	10.8	g/kg	Max
Phosphorus	4	g/kg	Min
Phosphorus	5	g/kg	Max
Potassium	8	g/kg	Min
Sulphur	1.8	g/kg	Min
Sulphur	3.5	g/kg	Max
Sodium	1.6	g/kg	Min
Sodium	11	g/kg	Max
Chloride	1.8	g/kg	Min
Chloride	17	g/kg	Max
Magnesium	1.8	g/lg	Min
Vitamin A	5 000	IU/kg	Min
Manganese	36	mg/kg	Min
Manganese	900	mg/kg	Max
Copper	9	mg/kg	Min
Copper	22.5	mg/kg	Max
Cobalt	0.1	mg/kg	Min
Cobalt	9	mg/kg	Max
Iodine	0.55	mg/kg	Min
Iodine	4.5	mg/kg	Max
Zinc	36	mg/kg	Min
Zinc	450	mg/kg	Max
Selenium	0.27	mg/kg	Min
Selenium	1.8	mg/kg	Max
Iron	45	mg/kg	Min
Iron	900	mg/kg	Max
Fluoride	36	mg/kg	Max
Molybdenum	4.5	mg/kg	Max
ME Ruminant (estimate)	9	MJ/kg	Min

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# PRO-12 GAME FEED

Registration No: V 28715 Act 36 of 1947

**Class:** Complete Game Feed

**Form:** Pellets

## Description

Complete game feed.

## Benefits

- Lucerne based.
- Highly palatable to achieve proper intakes.
- Ideally suited to animals in confined areas.
- Contains no urea.
- Supplies essential nutrients, vitamins, trace- and macro minerals.

## Feeding Recommendations

This game feed may be fed ad-lib after animals were adapted to it by gradually increasing the amount fed over a minimum period of one week. During this period good quality roughage should be provided ad-lib.

## Composition

Nutrient	Quantity	Unit	Min/Max
Protein	120	g/kg	Min
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	150	g/kg	Min
Fibre	250	g/kg	Max
Moisture	120	g/kg	Max
Calcium	7	g/kg	Min
Calcium	12	g/kg	Max
Phosphorus	3.5	g/kg	Min

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# PRO-14 GAME FEED

Registration No: V 28716 Act 36 of 1947

**Class:** Complete Game Feed

**Form:** Pellets

## Description

Complete game feed that can also be used as a supplement to free roaming animals.

## Benefits

- Lucerne based.
- Palatable to achieve proper intakes.
- Can be used as a supplement to free roaming animals.
- Contains no urea.
- Supplies essential nutrients, vitamins, trace- and macro minerals.

## Feeding Recommendations

This game feed may be fed ad-lib after animals were adapted to it by gradually increasing the amount fed over a minimum period of one week. During this period good quality roughage should be provided ad-lib.

## Composition

Nutrient	Quantity	Unit	Min/Max
Protein	140	g/kg	Min
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	150	g/kg	Min
Fibre	250	g/kg	Max
Moisture	120	g/kg	Max
Calcium	7	g/kg	Min
Calcium	12	g/kg	Max
Phosphorus	3.5	g/kg	Min

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# PRO-16 GAME FEED

Registration No: V 28717 Act 36 of 1947

**Class:** Complete Game Feed

**Form:** Pellets

## Description

Complete game feed that is especially suitable as a supplement to free roaming animals.

## Benefits

- Lucerne based.
- Palatable to achieve proper intakes.
- Suitable as a supplement to free roaming game when grazing quality is poor.
- Contains no urea.
- Supplies essential nutrients, vitamins, trace- and macro minerals.

## Feeding Recommendations

This game feed may be fed ad-lib after animals were adapted to it by gradually increasing the amount fed over a minimum period of one week. During this period good quality roughage should be provided ad-lib.

## Composition

Nutrient	Quantity	Unit	Min/Max
Protein	160	g/kg	Min
Fat	25	g/kg	Min
Fat	70	g/kg	Max
Fibre	150	g/kg	Min
Fibre	250	g/kg	Max
Moisture	120	g/kg	Max
Calcium	7	g/kg	Min
Calcium	12	g/kg	Max
Phosphorus	3.5	g/kg	Min

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# ELECTROLYTE

Registration No: V 20064 Act 36 of 1947

**Class:** Soluble Vitamins and Electrolytes for Cattle and Sheep

**Form:** Powder

## Description

Use as a replenishment aid for lost essential vitamins and minerals.

## Benefits

- Ideal to rehydrate young ruminants.
- Supplement calves or lambs with diarrhoea.
- Supplement young ruminants that are sick and not eating well.

## Feeding Recommendations

- Dissolve one sachet (90 g) of **Electrolyte** in 2 liter of lukewarm water.
- Multiples or submultiples of these quantities of **Electrolyte** and water may be used.

## Expected Intakes

- Adult Cattle: Offer instead of drinking water.
- Calves: Feed 2 litre twice a day instead of milk or milk replacer for 2 days, thereafter mix the 1 liter solution with 1-liter milk or milk replacer and feed twice a day for 2 days.
- Adult Sheep: Offer instead of drinking water.
- Lambs: Feed 250ml twice a day instead of milk or milk replacer for 2 days, thereafter mix 125 ml solution with 125 ml milk or milk replacer and feed twice a day for 2 days.

## Composition

Nutrient	Quantity	Unit	Min/Max
Salt	59	g/kg	Min
Salt	61	g/kg	Max
Sodium	58	g/kg	Min
Sodium	60	g/kg	Max
Chloride	36	g/kg	Min
Chloride	37	g/kg	Max
Potassium	14	g/kg	Min
Potassium	15	g/kg	Max
Potassium citrate	40	g/kg	Min
Dextrose	700	g/kg	Min
Vitamin A	80 000	IU/kg	
Vitamin B1	23	IU/kg	
Vitamin B2	23	mg/kg	
Vitamin B6	23	mg/kg	

Composition continues on next page

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**More than just feed**

Nutrient	Quantity	Unit	Min/Max
Vitamin B12	250	mg/kg	
Vitamin D3	2 000	IU/kg	
Vitamin E	300	mg/kg	
Folic Acid	1.8	mg/kg	
Niacin	35	mg/kg	
Pantothenic acid	45	mg/kg	
Biotin	350	mg/kg	

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