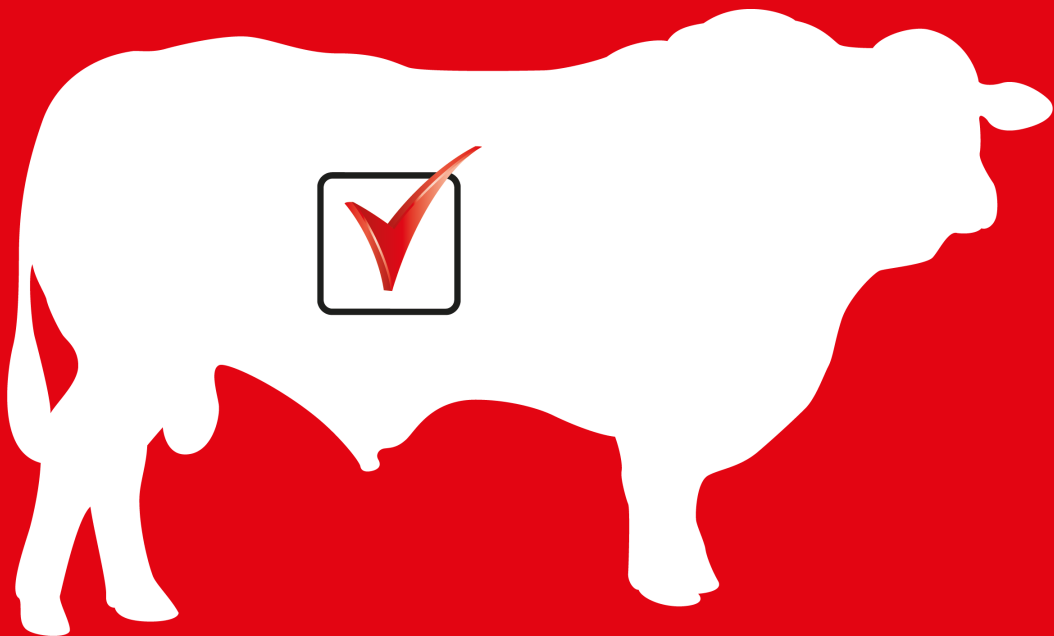
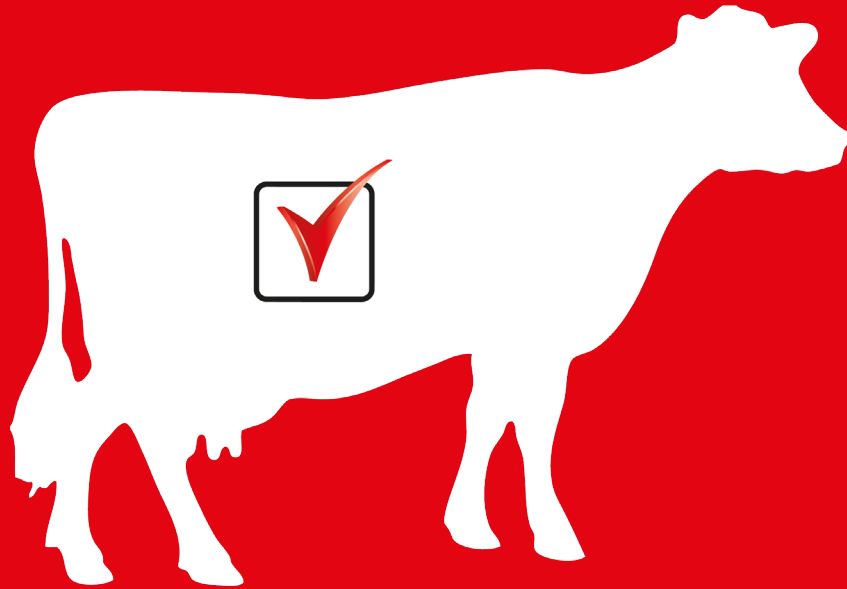


Meadow Feeds

Cattle Product Range



| Product | Page |
|---|-------------|
| Maintenance Licks - Ready-mixed | |
| <i>Growing season</i> | |
| V 18596 Summerphos P9 | 1 |
| <i>Dry season</i> | |
| V 18595 Winterbreker Readymix | 3 |
| Maintenance Licks - Concentrates | |
| <i>Dry season</i> | |
| V 18604 Bees Lekkonsentraat | 6 |
| Production Licks - Ready-mixed | |
| <i>Growing season</i> | |
| V 18597 Paddock Supplement | 8 |
| V 15249 Beef Booster 18 | 9 |
| <i>Transition / Specialised Licks</i> | |
| V 18601 Supreme 20 | 11 |
| V 18598 Lambing Lick | 13 |
| <i>Dry season</i> | |
| V 21260 Production Lick | 15 |
| Blocks | |
| <i>Production</i> | |
| V 18129 Energy Block | 17 |
| <i>Dry season</i> | |
| V 18130 Ruminant Block | 19 |
| Feedlot Concentrates and HPC's | |
| V 15248 Hitech Feedlot 50 Concentrate | 21 |
| V 18607 Multimix 40 Concentrate | 24 |
| V 18146 HPC 64 | 27 |
| V 14077 HPC 85 | 30 |



More than just feed

| Product | Page |
|--------------------------------------|-------------|
| Complete Feeds | |
| V 9887 Complete Feedlot Finisher 11 | 33 |
| V 24301 Phase C Stud Cattle Finisher | 34 |
| Drought Feed | |
| V 9901 Drought Cubes 10 | 35 |
| Utility Feed | |
| V 17783 Rumen Kandy 13 | 36 |
| V 19426 Herbivore Sweetfeed 15 | 37 |
| Other | |
| V 20062 Electrolyte | 39 |



More than just feed



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 | |

Continues on next page

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



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. (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.

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



WINTERBREKER READYMIX

Registration No: V 18595 Act 36 of 1947

Class: Protein Trace Mineral Supplement for Ruminants

Form: Meal

Description

Use **Winterbreker Readymix** as a maintenance or 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 | |

*Maximum 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

Continues on next page

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

CENTRAL REGION Randfontein - +27 11 693 5120
 Standerton - +27 17 200 0272
 Delmas - +27 13 665 5011
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

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 |
| Cattle | 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 |
| TOTAL | 1 000 |
| Composition (g/kg) | |
| *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 |
| Expected intakes (g/animal/day) | |
| 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.

Continues on next page

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed

NPN Warning

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

1. Protect this feed from getting wet as NPN is soluble and animals drinking this solution can be poisoned.
2. Do not feed this feed indiscriminately with other feed containing NPN, first consult an Animal Scientist.
3. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
4. To prevent salt hunger, a salt-phosphate lick must be fed for a minimum of 7 days prior to feeding any animal a NPN-containing lick.
5. **Cattle** : Adapt animals to the lick over a 10 day period, starting with 100 grammes/animal/day, increasing by 50 grammes/animal/day, until the recommended intakes are reached. Monitor and do not exceed recommended intakes.
Sheep : Adapt animals to the lick over a 8 day period, starting with 20 grammes/animal/day, increasing by 10 grammes/animal/day, until the recommended intakes are reached. Monitor and do not exceed recommended intakes.
6. Ensure that animals have sufficient trough space to avoid feeding competition.
7. Vinegar is an effective remedy against NPN poisoning. Mix with equal amounts of water. Dose half a bottle per calf or sheep or 2-4 bottles per head of cattle. (1 bottle = 750 ml).

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

| | | | | | |
|-----------------------|------------------|-------------------|---------------------|-----------|--------------------|
| CENTRAL REGION | Randfontein | - +27 11 693 5120 | WESTERN CAPE | Paarl | - +27 21 807 8700 |
| | Standerton | - +27 17 200 0272 | | Ladismith | - +27 28 551 1950 |
| | Delmas | - +27 13 665 5011 | EASTERN CAPE | Gqeberha | - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg | - +27 33 387 2403 | AFRICA | Zambia | - +260 967 790 404 |



More than just feed



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

Continues on next page

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

CENTRAL REGION Randfontein - +27 11 693 5120
 Standerton - +27 17 200 0272
 Delmas - +27 13 665 5011
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

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 Lekkonsentraat (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 |
| TOTAL | 1 000 | 1 000 | 975 | 1 000 | 1 200 |
| Composition (g/kg) | | | | | |
| 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 |
| Recommended intakes (g/animal/day) | | | | | |
| 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.

CENTRAL REGION Randfontein - +27 11 693 5120
Standerton - +27 17 200 0272
Delmas - +27 13 665 5011
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



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.

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



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 | |

Continues on next page

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | 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.

| | | | | | |
|----------------|------------------|-------------------|--------------|--------------|--------------------|
| CENTRAL REGION | Randfontein | - +27 11 693 5120 | WESTERN CAPE | Paarl | - +27 21 807 8700 |
| | Standerton | - +27 17 200 0272 | | Ladismith | - +27 28 551 1950 |
| | Delmas | - +27 13 665 5011 | | EASTERN CAPE | Gqeberha |
| KWA-ZULU NATAL | Pietermaritzburg | - +27 33 387 2403 | AFRICA | Zambia | - +260 967 790 404 |



More than just feed



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

Continues on next page

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed

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.

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

| | | | | | |
|-----------------------|------------------|-------------------|---------------------|----------------|--------------------|
| CENTRAL REGION | Randfontein | - +27 11 693 5120 | WESTERN CAPE | Paarl | - +27 21 807 8700 |
| | Standerton | - +27 17 200 0272 | | Ladismith | - +27 28 551 1950 |
| | Delmas | - +27 13 665 5011 | EASTERN CAPE | Port Elizabeth | - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg | - +27 33 387 2403 | AFRICA | Zambia | - +260 967 790 404 |



More than just feed



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 | |

Continues on next page

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

| | | | | | |
|----------------|------------------|-------------------|--------------|--------------|--------------------|
| CENTRAL REGION | Randfontein | - +27 11 693 5120 | WESTERN CAPE | Paarl | - +27 21 807 8700 |
| | Standerton | - +27 17 200 0272 | | Ladismith | - +27 28 551 1950 |
| | Delmas | - +27 13 665 5011 | | EASTERN CAPE | Gqeberha |
| KWA-ZULU NATAL | Pietermaritzburg | - +27 33 387 2403 | 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.

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



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 | |

Continues on next page

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



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. (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.

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



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 | |

Continues on next page

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | 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.

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



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 | |

Continues on next page

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

| | | | | | |
|----------------|------------------|-------------------|--------------|--------------|--------------------|
| CENTRAL REGION | Randfontein | - +27 11 693 5120 | WESTERN CAPE | Paarl | - +27 21 807 8700 |
| | Standerton | - +27 17 200 0272 | | Ladismith | - +27 28 551 1950 |
| | Delmas | - +27 13 665 5011 | | EASTERN CAPE | Gqeberha |
| KWA-ZULU NATAL | Pietermaritzburg | - +27 33 387 2403 | 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.

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



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.

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed

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 |
| TOTAL | 1 000 | 1 000 | 1 000 | 1 000 |
| Composition (g/kg) | | | | |
| 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 |
| Recommended intakes (kg/animal/day) | | | | |
| 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.

CENTRAL REGION Randfontein - +27 11 693 5120
Standerton - +27 17 200 0272
Delmas - +27 13 665 5011
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

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.

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



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 | |

Continues on next page

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

| | | | | | |
|----------------|------------------|-------------------|--------------|--------------|--------------------|
| CENTRAL REGION | Randfontein | - +27 11 693 5120 | WESTERN CAPE | Paarl | - +27 21 807 8700 |
| | Standerton | - +27 17 200 0272 | | Ladismith | - +27 28 551 1950 |
| | Delmas | - +27 13 665 5011 | | EASTERN CAPE | Gqeberha |
| KWA-ZULU NATAL | Pietermaritzburg | - +27 33 387 2403 | AFRICA | Zambia | - +260 967 790 404 |



More than just feed

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 |
| TOTAL | 1 000 | 1 000 | 1 050 | 970 | 980 |
| 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.

CENTRAL REGION Randfontein - +27 11 693 5120
Standerton - +27 17 200 0272
Delmas - +27 13 665 5011
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

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.

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

| | | | | | |
|-----------------------|------------------|-------------------|---------------------|-----------|--------------------|
| CENTRAL REGION | Randfontein | - +27 11 693 5120 | WESTERN CAPE | Paarl | - +27 21 807 8700 |
| | Standerton | - +27 17 200 0272 | | Ladismith | - +27 28 551 1950 |
| | Delmas | - +27 13 665 5011 | EASTERN CAPE | Gqeberha | - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg | - +27 33 387 2403 | AFRICA | Zambia | - +260 967 790 404 |



More than just feed



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

Continues on next page

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed

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 |
| TOTAL | 990 | 1 080 |
| Composition (g/kg) | | |
| 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 |
| Expected intakes (g/animal/day) | | |
| 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.

CENTRAL REGION Randfontein - +27 11 693 5120
 Standerton - +27 17 200 0272
 Delmas - +27 13 665 5011
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

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.

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



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

Continues on next page

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed

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 |
| TOTAL | 750 |
| Composition (g/kg) | |
| 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 |
| Expected intakes (kg/animal/day) | |
| 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.

Continues on next page

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed

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.

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



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.

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

CENTRAL REGION
 Randfontein - +27 11 693 5120
 Standerton - +27 17 200 0272
 Delmas - +27 13 665 5011
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



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.

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



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:

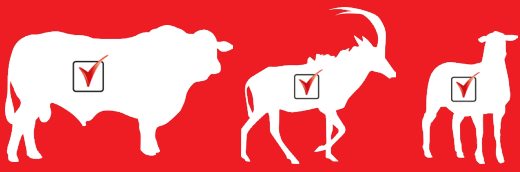
1. Vinegar is an effective remedy against NPN (non-protein nitrogen) poisoning. Mix with equal amounts of water. Dose half a bottle per calf or large sheep or 2-4 bottles per head of cattle. (1bottle = 750ml)
2. Protect these feeds against rain. NPN is soluble and animals drinking such a solution can 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.

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed



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

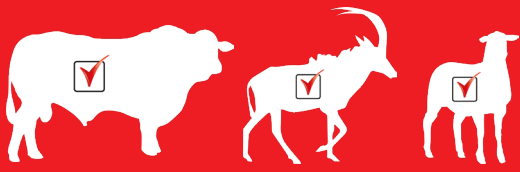
| Nutrient | Quantity | Unit | Min/Max |
|------------|----------|------|---------|
| Protein | 130 | g/kg | Min |
| Fat | 25 | g/kg | Min |
| Fat | 70 | g/kg | Max |
| Fibre | 110 | g/kg | Min |
| Fibre | 200 | g/kg | Max |
| Moisture | 120 | g/kg | Max |
| Calcium | 10 | g/kg | Min |
| Calcium | 12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

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

| | | | | | |
|----------------|------------------|-------------------|--------------|--------------|--------------------|
| CENTRAL REGION | Randfontein | - +27 11 693 5120 | WESTERN CAPE | Paarl | - +27 21 807 8700 |
| | Standerton | - +27 17 200 0272 | | Ladismith | - +27 28 551 1950 |
| | Delmas | - +27 13 665 5011 | | EASTERN CAPE | Gqeberha |
| KWA-ZULU NATAL | Pietermaritzburg | - +27 33 387 2403 | AFRICA | Zambia | - +260 967 790 404 |



More than just feed



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 adaptation) 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

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

| | | | | | |
|----------------|------------------|-------------------|--------------|-----------|--------------------|
| CENTRAL REGION | Randfontein | - +27 11 693 5120 | WESTERN CAPE | Paarl | - +27 21 807 8700 |
| | Standerton | - +27 17 200 0272 | | Ladismith | - +27 28 551 1950 |
| | Delmas | - +27 13 665 5011 | EASTERN CAPE | Gqeberha | - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg | - +27 33 387 2403 | AFRICA | Zambia | - +260 967 790 404 |



More than just feed

| 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 |

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

CENTRAL REGION **Randfontein** - +27 11 693 5120
 Standerton - +27 17 200 0272
 Delmas - +27 13 665 5011
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



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

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

| | | | | | |
|----------------|------------------|-------------------|--------------|--------------|--------------------|
| CENTRAL REGION | Randfontein | - +27 11 693 5120 | WESTERN CAPE | Paarl | - +27 21 807 8700 |
| | Standerton | - +27 17 200 0272 | | Ladismith | - +27 28 551 1950 |
| | Delmas | - +27 13 665 5011 | | EASTERN CAPE | Gqeberha |
| KWA-ZULU NATAL | Pietermaritzburg | - +27 33 387 2403 | AFRICA | Zambia | - +260 967 790 404 |



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 | |

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

| | | | |
|-----------------------|------------------------------------|---------------------|-----------------------------|
| CENTRAL REGION | Randfontein - +27 11 693 5120 | WESTERN CAPE | Paarl - +27 21 807 8700 |
| | Standerton - +27 17 200 0272 | | Ladismith - +27 28 551 1950 |
| | Delmas - +27 13 665 5011 | EASTERN CAPE | Gqeberha - +27 41 402 5000 |
| KWA-ZULU NATAL | Pietermaritzburg - +27 33 387 2403 | AFRICA | Zambia - +260 967 790 404 |



More than just feed