FEED SOLUTIONS GUIDE
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**Disclaimer:** Errors and Omissions Excepted. All sales are subject to terms and conditions - copy available on request. Please consult our qualified agricultural advisors. Suggested feeding rates are produced as a guide only and many other factors may have an overriding effect on animal response; no performance guarantee can be given. Rations should be carefully balanced for energy and protein, contain sufficient forage to maintain rumen function and be fortified with an appropriate vitamin and mineral supplement. Animals must have constant access to clean water.
2015 is a momentous year for Irish dairy farmers. Since 1983 Ireland has produced milk under a restrictive quota system which made it nearly impossible to expand the dairy farm. With quotas abolished the dairy farmer has a clear choice of expanding or standing still. If expanding, then what’s the best way forward? Expand the herd? What type of cow to breed? Improve feeding and grazing regimes? Expand by intensification? All of these are very valid questions, and the truth is, most expanding farms will choose to grow through some or all of these ways.

The beef sector too is facing many changes such as growing export markets and the increasing number of cattle available for beef out of the expanding dairy herd.

Our business is changing too. We have decided to amalgamate our three retail businesses Forage Systems (farm feed solutions) KW Forage Systems (moist and alternative feed solutions) and Specialist Nutrition (pig creep and premixes), going forward we will be known as Specialist Nutrition Ireland.

This year as well as adding new cutting edge products to our existing extensive portfolio of products, we are bringing an improved solutions based package to Irish farmers, in a more competitive, post quota environment. Specialist Nutrition Ireland will concentrate primarily on nutrition for beef, dairy and pigs and our product offering includes moist feeds, minerals, vitamins, additives, yeasts, enzyme treatments and milk replacer.

Our customers will benefit from an excellent nutritional and solutions based offering, with new ideas and products which will equip the farmer to deal with the challenges of the ever changing market place that we face.

I hope you enjoy our new brochure and product offering. Please feel free to contact any member of our team of experts.

We look forward to expanding our business relationship into the future.

Yours sincerely,

Jim Buckley

Jim Buckley,
Managing Director
MINERALS
ALL MINERALS ARE SUPPLIED IN 25KG BAGS OR 1 TONNE BAGS

**OPTIMIN FORAGE BEEF**

Optimin Forage Beef is a general purpose mineral for cows and cattle indoors on grass silage or outdoors on grass.

**FEEDING RATES**

**Beef Cattle and Young Stock**
20g/100kg live weight/day

**OPTIMIN INTENSIVE BEEF**

Optimin Intensive Beef is a mineral specifically formulated for cattle in intensive and semi intensive feeding systems.

**FEEDING RATES**

**Finishing Beef Cattle**
20g/100kg live weight/day

**KEY FEATURES**

- Trace minerals and vitamins to help safeguard health and productivity of cattle
- Macro minerals to make-up the shortfall in macro mineral supply from forage based diets (e.g. calcium and sodium)
- A highly palatable, molassed mineral containing a full complement of essential vitamins, minerals and trace elements

**OPTIONAL EXTRAS**

- **Hoofcare**: Mineral feed supplement formulated to improve hoof strength and reduce the incidence of lameness and hoof disorders in cows and cattle
- **Biotin**: Specific vitamin, included for hoof strength
- **Extra Phosphorous**: Can be added in cases of high levels of fodder beet and maize silage
OPTIMIN PROBEEF

A complete combination of mineral and additives, for intensively fed cattle with high levels of performance. ProBeef includes a unique combination of Yeasts, Buffers and Trouwferm to maximise feed efficiency, and minimise rumen problems.

FEEDING RATES

High Performance and Intensively Fed Beef Cattle
250g/hd/day

MINERALS

ALL MINERALS ARE SUPPLIED IN 25KG BAGS OR 1 TONNE BAGS

KEY FEATURES

- Contains a balance of macro and trace minerals, vitamins and Vistacell Yeast, to optimise rumen function and minimise rumen upset
- Contains vitamins B1 and B12 to compliment high levels of cereals and low levels of forages as well as the B vitamin Nicotinic Acid
- Includes Trouwferm, a fermentation extract of Aspergillus oryzae, which is proven to increase rumen pH. Also increases cellulolytic bacteria, which in turn increases fibre digestion

OPTIONAL EXTRAS

- **ProBeef Transition**: All the benefits of ProBeef with the addition of an immunity package for cattle in transition to a new yard or undergoing some level of stress. ProBeef Transition is fed for 3-4 weeks during this transitional period, and then switched onto Optimin ProBeef. ProBeef Transition contains high levels of vitamin E, including natural vitamin E, which is more available in times of stress, as well as high levels of protected selenium

- **EMX**: Coccidosis is caused by a single cell parasite, that once ingested multiplies in the wall of the intestine, and is passed as an oocyst in the faeces. EMX is a feed additive to maintain the intestinal balance of young calves and thus to limit infection risks linked to the presence of coccidian oocysts. EMX works by creating an oxidative stress within the gut which impairs membranes of the coccidian
OPTIMIN PROTECTED PRECALVER

Optimin Precalver is our proven high spec precalver designed to meet the requirements of cow and calf during the last 8 weeks of pregnancy. Now containing AO Mix.

FEEDING RATES

Cows for 8 Weeks Prior to Calving
125g/hd/day

OPTIMIN STANDARD PRECALVER

A well balanced precalver mineral, for dairy and suckler cows prior to calving.

FEEDING RATES

Cows for 8 Weeks Prior to Calving
125g/hd/day

KEY FEATURES

- High levels of magnesium, to help calcium mobilisation at calving and help prevent milk fever
- Fully fortified with vitamins, minerals and trace elements for cow and calf health prior to calving

OPTIONAL EXTRAS

- **Anionic Salts**: As an additional prevention against milk fever, in cases of high Potassium silages
- **Biotin**: The addition of biotin in the dry cow period helps the hoof post calving, when it is prone to damage
- **Seaweed**: Seaweed supplementation to improve the immune system and nutrition uptake of cows precalving. Good source of Iodine

KEY FEATURES

- High levels of vitamin E (8,000iu/kg) is supported with the inclusion of AO Mix; a blend of natural polyphenols, with proven anti-oxidant activity. This is equivalent to 10,000iu/kg vitamin E
- Contains selenium in the protected form as Selplex, which along with the high levels of vitamin E, boosts cow and calf immunity, and helps reduce the incidences of retained cleanings
- Protected zinc and protected copper sources increase the availability of these essential minerals
- High levels of magnesium, to help calcium mobilization at calving and help prevent milk fever

FEEDING RATES

Cows for 8 Weeks Prior to Calving
125g/hd/day
MINERALS
ALL MINERALS ARE SUPPLIED IN 25KG BAGS OR 1 TONNE BAGS

OPTIMIN HI PERFORMANCE DAIRY
Post calving mineral supplement, formulated for cows on grass silage based diets or cows at grass.

FEEDING RATES
Cows Post Calving
125g/hd/day

OPTIMIN FERTILITY BOOST
Post calving mineral supplement designed as a fertility boost and in situations of recognised trace mineral deficiency or reduced immune function.

FEEDING RATES
Cows Post Calving
125g/hd/day

KEY FEATURES
• Balance of macro minerals, vitamins and trace elements required to meet the demands of the high performance dairy cows, in terms of productivity and fertility
• Contains 5% phosphorous, to ensure maximum health, immune system response and fertility levels in good producing dairy cows
• Contains the required balance of vitamins and trace elements to further enhance performance and balance forages

OPTIONAL EXTRAS
• Hoofcare: Feed supplement formulated to improve hoof strength and reduce the incidence of lameness and hoof disorders in cows and cattle

OPTIMIN FERTILITY BOOST
Post calving mineral supplement designed as a fertility boost and in situations of recognised trace mineral deficiency or reduced immune function.

FEEDING RATES
Cows Post Calving
125g/hd/day

KEY FEATURES
• Contains a high level of phosphorous, to ensure maximum health, immune system response and fertility levels in good producing dairy cows
• Contains selenium in protected form as Selplex, which along with the high levels of vitamin E, boosts cow immunity
• Protected zinc, protected copper and protected manganese sources increase the availability of these essential minerals

OPTIONAL EXTRAS
• Hoofcare: Feed supplement formulated to improve hoof strength and reduce the incidence of lameness and hoof disorders in cows and cattle
• Vivalto: A matrix blend of protected B vitamins, which play an important role in liver metabolism. Microbial production in rumen fermentation is major source of B vitamins, however with modern, high, producing dairy cows a sufficient supply of B vitamins to the intestine, based on feed and microbial production, is not guaranteed
OPTIMIN MAIZE WHOLECROP BALANCER

A mineral suitable for both dairy and beef animals, fed a proportion of the diet as maize silage, wholecrop or fodder beet.

FEEDING RATES

- Cows Post Calving: 150g/hd/day
- Beef Cattle: 20g/100kg live weight

KEY FEATURES

- High levels of vitamins A, D and E designed to balance the deficiencies of diets containing a proportion of maize silage, wholecrop or beet
- Contains a high level of phosphorous, to balance the low levels of phosphorous in fodder beet, wholecrop or maize silage
- Added sulphur, for efficient rumen microbial protein synthesis

OPTIMIN INTENSIVE LAMB

Mineral specific for lambs, especially male fattening lambs to avoid urinary calculi.

FEEDING RATES

- Intensively Fed Lambs: up to 7.5g (¼ oz) per day
- Weaning Lambs: up to 7.5g (¼ oz) per day
- Finishing Lambs: up to 45g (1 ½ oz) per day

KEY FEATURES

- Designed to satisfy the mineral and vitamin requirements of lambs
- Essential B vitamins are also included
- Contains no added magnesium or phosphorous
- A high level of salt and anionic salts to manage the risk of urinary calculi in the male lamb
KEY FEATURES

- Formulated to improve lamb survival, the ewes overall immune response and overall performance
- Contains very high levels of vitamin E (6,000mg/kg) and protected selenium to improve lamb survival rates
- Includes protected zinc and protected manganese

OPTIMIN SUPREME EWE + VIT E

Specific mineral for ewes pre and post lambing. Provides for the needs of more intensively managed lowland and hill flocks.

FEEDING RATES

Ideal for Dry and Lactating Ewes
It is unsuitable for fattening lambs

Ewes 15-30g/hd/day
**VISTACELL FOR THE DAIRY HERD**
- Up to 2 litres more milk/cow/day
- Increased forage and dry matter intake, for increased production
- Reduced risk of acidosis
- Improved dung consistency
- Increased feed efficiency
- Animals visibly more content
- Also available on Acid Buf Base instead of limestone flour as Vistacell AB 4%, to provide the benefits of Vistacell and Acid Buf in one combination product
- Permitted for use in organic production systems
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- Permitted for use in organic production systems

**FEEDING RATES**
- Dairy Herd: 100g/hd/day
- Beef Herd: 50g/hd/day

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**VISTACELL FOR THE BEEF HERD**
- Up to 10% improvement in LWG
- Increased forage and dry matter intake, for increased production
- Reduced risk of acidosis
- Improved dung consistency
- Increased feed efficiency
- Animals visibly more content
- Also available on Acid Buf Base instead of limestone flour as Vistacell AB 4%, to provide the benefits of Vistacell and Acid Buf in one combination product
- Permitted for use in organic production systems

**FEEDING RATES**
- Dairy Cows: 50-80g/hd/day
- Beef: 25-50g/hd/day

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**YEAST vistacell**
- Supplies more live yeast cells than other yeast products
- Removes oxygen, to improve the rumen environment
- Increases fibre digesting bacteria, to improve rumen efficiency
- Increases lactic acid utilising bacteria, to improve rumen efficiency

**FEEDING RATES**
- Dairy Herd: 100g/hd/day
- Beef Herd: 50g/hd/day

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**RUMEN BUF**
- Acid Buf is a unique rumen buffer produced from calcareous marine algae. Its high buffering capacity and ability to buffer acid over a long period of time helps prevent against the incidence of acidosis. It is the best rumen buffer available, and also the market leader.

**KEY FEATURES**
- Acid Buf buffers the rumen and not just the silage
- Has over 2.5 times the buffering capacity of sodium bicarbonate
- Its unique honeycomb structure has a large surface area, enabling it to absorb and buffer large amounts of acid
- Reduces cases of SARA and acidosis in herds
- Can be used in organic systems

**FEEDING RATES**
- Dairy Cows: 50-80g/hd/day
- Beef: 25-50g/hd/day

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**RUMEN ENHANCERS**

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**Acid Buf**
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**YEAST**
- Supplies more live yeast cells than other yeast products
- Removes oxygen, to improve the rumen environment
- Increases fibre digesting bacteria, to improve rumen efficiency
- Increases lactic acid utilising bacteria, to improve rumen efficiency

**FEEDING RATES**
- Dairy Herd: 100g/hd/day
- Beef Herd: 50g/hd/day
VISTAPRE-T is a feed and forage pre-treatment. It is a liquid fermentation extract from Trichoderma which when applied to feed and forage as a feed pre-treatment, starts to work immediately to make pits or holes in the surface of the fibre which increases feed digestibility. Once applied to feed, VistaPre-T gets to work straight away to alter the physical and chemical structure of your forage.

**FEED AND FORAGE PRE-TREATMENT**

**HOW DOES IT WORK?**

1. Breaks down forage roughening up the surface of the fibre causing pits to form.
2. These pits enable the easy attachment and colonisation of anaerobic bacteria, reducing the lag time to digestion.

**VistaPre-T causes faster colonisation of fibrous material**

**FEEDING RATES**

VistaPre-T is a liquid product added to forage prior to feeding and water must be added. Quantity fed is dependent on DMI. Consult with your nutritionist for application rates to your forage.

**KEY BENEFITS**

- Improves digestibility of a wide range of forages
- Increases D-value and ME value of different forages, especially those of poor quality and low digestibility values
- Improves DM, NDF and ADF digestibility
- Allows the farmer to extract more value from forage
RUMEN ENHANCERS

PRO-FIT®

PROFIT is a revolutionary feeding product, designed for use in ruminants for the entire feeding cycle and increases the net energy available to the animal by over 10%. This results in an increase in production of milk or beef with no modification of the existing diet. The results are achieved by using a unique blend of synthetically manufactured essential oils, which alter the bacterial flora within the rumen and small intestine.

FEEDING RATES

Dairy Herd / Beef Herd
100g/hd/day added directly into the feed wagon

NOTE: The inclusion rates are provided as a guide for use in most circumstances, please consult with your nutritionist prior to use.

KEY BENEFITS

- Scientifically proven to increase milk production by around 8% and meat production by 6-8%
- An increase in general animal health due to the antibacterial properties of the product
- Due to the modification of the bacteria in the rumen and small intestine, the manure production decreases and there is a marked decrease in methane and carbon dioxide production
FEED GRADE UREA

FEED GRADE UREA provides a good source of effective rumen degradable protein (ERDP) to adult ruminants, but care should always be taken to ensure diets are correctly balanced. As feeding levels are very low due to its high nitrogen content, it is essential that urea be mixed thoroughly with other feeds prior to offering to animals.

NOTE: UNDER NO CIRCUMSTANCES SHOULD ANY UREA OTHER THAN FEED GRADE UREA BE OFFERED IN DIETS FOR LIVESTOCK WHERE USE OF UREA AS A FEED ADDITIVE IS REQUIRED, PROFESSIONAL ADVICE MUST BE TAKEN AS THE RATES CAN VARY WIDELY.

KEY FEATURES

- Highly concentrated effective nitrogen source for adult ruminants
- Supplies rapidly available nitrogen
- Good balancer for low protein, high energy feeds
- Can be used to preserve moist forage or grain
- Alkaline pH results from hydrolysis with water

FEEDING RATES

- **Dairy Cows**: Up to 0.1kg/hd/day
- **Beef**: Up to 0.1kg/hd/day

Bag Size 25kgs

HANDLING & STORAGE

As with other dry feeds, Feed Grade Urea should be stored in cool dry conditions. Care should be taken to ensure correct amounts are weighed into rations and that the straight material is kept well away from animal contact. Urea is normally available to all areas throughout the year, though adequate notice needs to be given to ensure timely delivery of small loads.
Mycotoxins are poisons produced from the secondary metabolic processes which occur naturally in a variety of moulds that grow on food crops. The amount and type of mycotoxin produced varies by the type of mould prevalent during different environmental conditions such as temperature and humidity. Stress on crops from insects, weeds and weather also influence mould growth and mycotoxin production.

Mycotoxins can lower feed consumption and feed conversion, reduce disease resistance, increase reproductive problems, reduce performance, and restrict genetic expression of traits.

**FEEDING RATES**

**Dairy**
20g/hd/day as a top dress or added to TMR

**Beef**
10g/hd/day as a top dress or added to TMR

**Calves, Sheep & Goats**
6-10g/hd/day as a top dress or added to TMR

**Horse**
Add to rations at 40g/hd/day

**KEY BENEFITS**

When Mycotoxins are present in feed, treating with UltraSorb can result in:

- Higher feed intakes
- Increased milk production
- Increased growth rates
- Improved fertility
- Reduced litter and flock mortality
- Better herd, flock and litter health

**HOW DOES IT WORK?**

**ULTRASORB MODE OF ACTION**

- Clay mineral particles - bind the “polar” mycotoxins
- Yeast wall components - bind to toxins and pathogenic bacteria
- Yeast cell extracts - modifies toxin structures to render them non-toxic
- Microbial nutrient package - supports tissue and beneficial microflora recovery
Sprayfo farmers rear strong, healthy dairy calves by extracting the goodness of milk to create a highly nutritious feed. A crucial breakthrough was the intervention of our spray-drying techniques. This enables us to stabilise dairy ingredients and combine them with highly digestible vegetable components in easily dissolvable, individual particles. This produces unique milk replacers offering you and your calves great benefits.

**EASY PREPARATION**

- Take 75% of the required amount of warm (45-50°C) water
- Whisk the water as you add Sprayfo and keep whisking until completely dissolved
- Add the rest of the water to a final temperature of +42°C
- Feed Sprayfo to your calves at +40°C

**FEEDING RATES**

All Sprayfo products are suitable for feeding with buckets, bottles, troughs or automatic feeders.

Sprayfo Blue is an internationally renowned product. Farmers from across the globe agree that this product provides a well-balanced blend for proper calf rearing. Blue is based on the unique Sloten spray-dried whey-fat kernels. Following the Sprayfo feeding and mixing advice your calves will develop well in the first few months.

**Sprayfo offer a different range of milk replacers to suit your productivity objectives.**

**Sprayfo Excellent**

Sprayfo Excellent is for dairy farmers who place the highest demands on their calf rearing. With Excellent, you can easily elevate concentrations to a high level without problems: up to as much as 180 grams per litre. Results are clearly noticeable in terms of a good health status and shining pelts.

**Sprayfo Yellow**

Sprayfo Yellow is for dairy farmers who opt for a familiar and trusted recipe. Yellow is very easily dissolvable and stays stable in solution. With the right concentration and correct feeding schedule, any farmer can get into the professional league of calf rearing.

**Sprayfo Blue**

Sprayfo Blue offer a different range of milk replacers to suit your productivity objectives.
BREWERS GRAINS is a co-product from the production of beer. The intake of malt is allowed to soak in warm water to remove the sugars as ‘wort’ with the fibrous and protein residue being separated off as ‘Brewers Grains’. Though occasionally dried in the past, most Brewers Grains are moved straight to farm as a pale brown moist feed. Brewers grains can be fed to all livestock in a wide range of feeding situations. Whether used as part of a total mixed ration (TMR), as a sole concentrate feed or even as a forage replacer, care should be taken to ensure sufficient long fibre is fed.

Whether fed fresh or ensiled, it is essential to exclude all air and water from the silo to successfully store the product. Failure to ensile properly may result in mould growth, loss of dry matter and reduction in nutritive value.

<table>
<thead>
<tr>
<th>TYPICAL ANALYSIS (Dry matter basis except DM)</th>
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<tbody>
<tr>
<td>Dry Matter</td>
</tr>
<tr>
<td>Crude Protein</td>
</tr>
<tr>
<td>Oil</td>
</tr>
<tr>
<td>NDF</td>
</tr>
<tr>
<td>Starch</td>
</tr>
<tr>
<td>Sugar</td>
</tr>
<tr>
<td>ME (MJ/KG DM)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KEY BENEFITS</th>
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<tbody>
<tr>
<td>Source of protein and energy</td>
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<tr>
<td>Good source of digestible fibre to improve rumen fermentation</td>
</tr>
<tr>
<td>Very palatable and has been shown to enhance dry matter intakes</td>
</tr>
<tr>
<td>Ideally suited for milk production helping maintain rumen function</td>
</tr>
<tr>
<td>Excellent feed for beef cattle</td>
</tr>
<tr>
<td>Easily stored and incorporated into many feeding systems</td>
</tr>
<tr>
<td>Excellent buffer feed in cases of grass shortage</td>
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<table>
<thead>
<tr>
<th>FEEDING RATES</th>
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</thead>
<tbody>
<tr>
<td>Dairy Cows</td>
</tr>
<tr>
<td>Beef</td>
</tr>
</tbody>
</table>

(20kgs fresh weight = 4kgs dry matter)
NORTHERNGOLD

NORTHERNGOLD is a co-product from the Great Northern Distillery, Dundalk, Co. Louth. It is a natural product high in oil and protein making it an excellent feed for all animals.

Whether used as a total mixed ration (TMR) or part of a simple mix, it can make up 10% of a diet fed with straw or hay. This makes it a great feed for dry cows and store cattle.

FEEDING RATES

<table>
<thead>
<tr>
<th>Animal</th>
<th>Daily Feeding Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dairy</td>
<td>Up to 20kg/hd/day fresh weight</td>
</tr>
<tr>
<td>Beef</td>
<td>Up to 20kg/hd/day fresh weight</td>
</tr>
<tr>
<td>Sheep</td>
<td>Up to 3kg/hd/day fresh weight</td>
</tr>
<tr>
<td>Pigs</td>
<td>When mixed with dried sugar beet pulp this produces a feed which is almost complete except for long fibre, vitamins and minerals</td>
</tr>
</tbody>
</table>

KEY BENEFITS

- Medium dry matter feed
- High fibre and protein feed
- Suitable to feed ad lib with forage
- Ideal balancer with cereals
- Easy to store
- Increases total feed palatability

TYPICAL ANALYSIS (Dry matter basis except DM)

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td>20-25%</td>
</tr>
<tr>
<td>Crude Protein</td>
<td>22%</td>
</tr>
<tr>
<td>Oil</td>
<td>7%</td>
</tr>
<tr>
<td>NDF</td>
<td>62%</td>
</tr>
<tr>
<td>Fibre</td>
<td>5%</td>
</tr>
<tr>
<td>Sugar</td>
<td>2%</td>
</tr>
<tr>
<td>ME (MJ/KG DM)</td>
<td>11.7</td>
</tr>
</tbody>
</table>

HANDLING & STORAGE

Whether fed fresh or ensiled, it is essential to exclude all air and water from the silo to successfully store the product. Failure to ensile properly may result in mould growth, loss of dry matter and reduction in nutritive value.
C★TRAFFORDGOLD comes from the Cerestar processing facility in Manchester. It is produced as a result of processing wheat to make four key ingredients for human foodstuffs; starch, glucose syrups, vital wheat gluten and alcohol.

C★Traffordgold can be fed to most livestock in a wide range of feeding situations. Whether used as part of a total mixed ration (TMR), as a sole concentrate feed or even as a forage replacer, care should be taken to ensure sufficient long fibre is fed.

**KEY BENEFITS**
- Highly palatable
- Value for money
- High performance feed
- Simple and convenient
- Fully traceable
- Highly suitable for pitting during summer for subsequent winter feeding
- Ideal buffer feed

**TYPICAL ANALYSIS**
(Dry matter basis except DM)

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td>50%</td>
</tr>
<tr>
<td>Crude Protein</td>
<td>20%</td>
</tr>
<tr>
<td>Oil</td>
<td>5%</td>
</tr>
<tr>
<td>NDF</td>
<td>21%</td>
</tr>
<tr>
<td>Starch</td>
<td>17.5%</td>
</tr>
<tr>
<td>Sugar</td>
<td>6.5%</td>
</tr>
<tr>
<td>ME (MJ/KG DM)</td>
<td>13.4</td>
</tr>
</tbody>
</table>

**FEEDING RATES**
(20kgs fresh weight = 4kgs dry matter)

- **Beef Cattle**
  - Up to 15kg
  - (typically 7kg)/hd/day fresh weight

- **Dairy Cows**
  - Up to 15kg
  - (typically 8kg)/hd/day fresh weight

- **Sheep**
  - Up to 2kg
  - (typically 1kg)/hd/day fresh weight

- **Young Stock**
  - Up to 11kg
  - (typically 5kg)/hd/day fresh weight

**HANDLING & STORAGE**

Whether fed fresh or ensiled, it is essential to exclude all air and water from the silo to successfully store the product. Failure to ensile properly may result in mould growth, loss of dry matter and reduction in nutritive value.
EORNAGOLD

EORNAGOLD is produced from pressed residual (spent) grains, evaporated syrup and a centrifuged cake residue from the whiskey distillation process. Initially, water is added to milled corn or barley and malt, and processed in the brew house to extract sugars for fermentation by yeast.

Eornagold can be fed to most livestock in a wide range of feeding situations. Whether used as part of a total mixed ration (TMR), as a sole concentrate feed or part of a simple mix, care should be taken to ensure a good long fibre source is present and that adequate mineral and vitamin supplementation is added.

**FEEDING RATES**

**Dairy Cows**
Up to 10 kg/hd/day fresh weight

**Beef Cattle**
Up to 10 kg per head per day fresh weight (mixtures of 50:50 Eornagold:Cereals give good results)

**HANDLING & STORAGE** 
**EVEN IF FEEDING FRESH, NORMAL PRINCIPALS SHOULD BE ADHERED TO:**

- Concrete base should be clean & dry
- Essential to exclude air through compaction
- Surface should be as smooth as possible
- Pit should be sealed with clean airtight sheets with plenty of air on top

**TYPICAL ANALYSIS**
(Dry matter basis except DM)

<table>
<thead>
<tr>
<th>Component</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td>30-32%</td>
</tr>
<tr>
<td>Crude Protein</td>
<td>28%</td>
</tr>
<tr>
<td>Oil</td>
<td>10%</td>
</tr>
<tr>
<td>NDF</td>
<td>43%</td>
</tr>
<tr>
<td>Starch</td>
<td>6%</td>
</tr>
<tr>
<td>Sugar</td>
<td>1%</td>
</tr>
<tr>
<td>ME (MJ/KG DM)</td>
<td>13.5</td>
</tr>
</tbody>
</table>
CREIDGOLD

CREIDGOLD is a co-product from the manufacture of Irish whiskey. It is a natural product high in oil and protein making it an excellent feed for all animals. Whether used as a total mixed ration (TMR) or part of a simple mix, it can make up 10% of a diet fed with straw or hay. This makes it a great feed for dry cows and store cattle.

**KEY FEATURES**

- Medium dry matter feed
- High fibre and protein feed
- Suitable to feed ad lib with forage
- Ideal balancer with cereals
- Easy to store
- Increases total feed palatability

**TYPICAL ANALYSIS**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td>20-25%</td>
</tr>
<tr>
<td>Crude Protein</td>
<td>22%</td>
</tr>
<tr>
<td>Oil</td>
<td>7%</td>
</tr>
<tr>
<td>NDF</td>
<td>62%</td>
</tr>
<tr>
<td>Fibre</td>
<td>5%</td>
</tr>
<tr>
<td>Sugar</td>
<td>2%</td>
</tr>
<tr>
<td>ME (MJ/KG DM)</td>
<td>11.7</td>
</tr>
</tbody>
</table>

**FEEDING RATES**

- **Dairy**: Up to 20kg/hd/day fresh weight
- **Beef**: Up to 20kg/hd/day fresh weight
- **Sheep**: Up to 3kg/hd/day fresh weight
- **Pigs**: When mixed with dried sugar beet pulp this produces a feed which is almost complete except for long fibre, vitamins and minerals

**HANDLING & STORAGE**

Whether fed fresh or ensiled, it is essential to exclude all air and water from the silo to successfully store the product. Failure to ensile properly may result in mould growth, loss of dry matter and reduction in nutritive value.

APPLE POMACE

APPLE POMACE is produced when apples are pressed in the manufacture of apple juice/cider. The remaining pulp is high in digestible fibre and therefore a valuable and nutritious feed. This co-product is a succulent moist feed ideal for inclusion in ruminant diets.

Apple pomace is an excellent supplement to grass and maize silages when supply is limited or of poor quality. It makes an excellent buffer feed and can promote the intake of less palatable feeds.

**FEEDING RATES**

- **Dairy**: Up to 20% dry matter intake
- **Beef**: Up to 20% dry matter intake in adult animals
- **Sheep (ewes)**: Up to 10% dry matter intake

**HANDLING & STORAGE**

Apple Pomace should be stored in a sealed clamp.
CAUSEWAYGOLD

CAUSEWAYGOLD is produced in the production of whiskey. The grain is mixed with malt and water in a pressure cooker type operation to release sugars from the cereal. Yeast is then added to ferment the sugars into alcohol. This is then distilled out of the mix at high temperatures and with all solids still in situ. The solids are then pressed to extract excess moisture leaving a friable moist feed as Causewaygold.

Causewaygold can be fed to most farm livestock in a wide range of feeding situations. Whether used as part of a total mixed ration (TMR), as a sole concentrate feed or even as a forage replacer, care should be taken to ensure a good long fibre source is present.

**KEY BENEFITS**

- Protein and energy succulent feed
- Good source of digestible fibre to improve rumen fermentation
- Very palatable and has been shown to enhance dry matter intakes
- Ideally suited for milk production helping maintain rumen function
- Excellent feed for beef cattle
- Easily stored and incorporated into many feeding systems

**KEY FEATURES**

- Good source of digestible fibre
- Highly palatable
- Cheaper energy source than grass silage
- Ideal forage replacer or extender
- Economical source of energy
- Stimulates feed intake
- Reduces the cost of animal production
- Natural and traceable feed product

**TYPICAL ANALYSIS**
(Dry matter basis except DM)

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td>22-25%</td>
</tr>
<tr>
<td>Crude Protein</td>
<td>22%</td>
</tr>
<tr>
<td>Oil</td>
<td>7%</td>
</tr>
<tr>
<td>NDF</td>
<td>62%</td>
</tr>
<tr>
<td>Fibre</td>
<td>5%</td>
</tr>
<tr>
<td>Sugar</td>
<td>2%</td>
</tr>
<tr>
<td>ME (MJ/KG DM)</td>
<td>11.7</td>
</tr>
</tbody>
</table>

**FEEDING RATES**
(20kgs fresh weight = 4kgs dry matter)

- **Dairy Cows**
  Up to 20kg/hd/day fresh weight

- **Beef Cattle**
  Up to 20kg/hd/day fresh weight

- **Pig**
  When mixed with dried sugar beet pulp this produces a feed which is almost complete except for long fibre, vitamins and minerals

**HANDLING & STORAGE**

Whether fed fresh or ensiled, it is essential to exclude all air and water from the silo to successfully store the product. Failure to ensile properly may result in mould growth, loss of dry matter and reduction in nutritive value.
LIQUIGOLD

LIQUIGOLD is a liquid feed made from molasses, syrup and CMS. LiquiGold is suitable for inclusion in the diets of all ruminant livestock and can offer a very cost effective way to increase the palatability of feeds whilst contributing good levels of energy and protein.

**KEY BENEFITS**

- High energy liquid blend
- Contains high levels of quality sugar and protein
- Provides sugar in two forms; sucrose and glucose
- Easy to handle in all weather conditions
- Highly palatable
- Helps to promote high dry matter intakes
- Highly digestible and contributes to rumen fermentation
- Ideal for binding dusty or mealy ingredients in your TMR

**TYPICAL ANALYSIS**

(Dry matter basis except DM)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td>60%</td>
</tr>
<tr>
<td>Crude Protein</td>
<td>18%</td>
</tr>
<tr>
<td>Oil</td>
<td>5%</td>
</tr>
<tr>
<td>NDF</td>
<td>0%</td>
</tr>
<tr>
<td>Starch</td>
<td>Trace</td>
</tr>
<tr>
<td>Sugar</td>
<td>41%</td>
</tr>
<tr>
<td>ME (MJ/KG DM)</td>
<td>12.6</td>
</tr>
</tbody>
</table>

**FEEDING RATES**

**Beef Cattle**

Typically 10% can be included depending on the nature of the other feeds in the mix and subsequent storage facilities for the finished ration

**Dairy Cows**

Typically 2kg/hd/day

**Young Stock**

Typically 10% of diet from 4 weeks of age

**HANDLING & STORAGE**

Tanks should be built to hold and dispatch bulk liquids and care should be taken to ensure they are cleaned out from time to time to ensure no build-up of sediment. 4 inch diameter pipework is adequate to handle LiquiGold. Available in lots of 10 tonne or greater. Discounts available on full artic loads.
LIQUID FEEDS

**SPEY SYRUP**
A very palatable, high energy, free flowing liquid produced as a co-product from the distillation of whiskey.

**KEY FEATURES**
- Very palatable
- A good source of degradable protein
- Contains yeast which stimulates rumen microbes
- High in copper
- A free flowing liquid

**FEEDING RATES**
- **Dairy Cows**: Up to 3kg/hd/day
- **Dry Cows**: Up to 2.5kg/hd/day
- **Young Stock**: Typically 2kg/hd/day
- **Sheep**: Should not be used in sheep diets due to risk of copper poisoning

**TYPICAL ANALYSIS**
(Dry matter basis except DM)

<table>
<thead>
<tr>
<th>Component</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td>42%</td>
</tr>
<tr>
<td>Crude Protein*</td>
<td>32%</td>
</tr>
<tr>
<td>Oil</td>
<td>1%</td>
</tr>
<tr>
<td>NDF</td>
<td>1%</td>
</tr>
<tr>
<td>Starch</td>
<td>1%</td>
</tr>
<tr>
<td>Sugar</td>
<td>2%</td>
</tr>
<tr>
<td>DUP</td>
<td>3.75%</td>
</tr>
</tbody>
</table>

**ME (MJ/KG DM)**: 14.2

*Protein may vary from 30-35% depending on distillery source

---

**CREIDSYRUP**
CREIDSYRUP is a co-product from the manufacture of Irish whiskey. It comprises mainly of yeast cells and residues from malted barley after alcohol is distilled off the fermented wort by high temperature in copper stills.

**KEY BENEFITS**
- High in digestible energy
- High level of degradable protein
- Highly palatable
- Ideal to complement low protein forage diets, such as wholecrop, maize silage or straw
- High in copper

**FEEDING RATES**
- **Dairy Cows**: Can be fed in diet feeders, concentrated mixes or bail feeders with maximum levels being 3.5 to 5kg/hd/day
- **Beef Cattle**: Flexible in the way it may be offered, maximum feed rates:
  - Young stock: 0-1kg/hd/day
  - Stores: 2-3kg/hd/day
  - Finisher: 4-5kg/hd/day
- **Suckler Cattle**: Has successfully been used as the sole ‘concentrate’ feed for in-calf suckler cows on a straw diet. Additional energy may be required after calving
- **Sheep**: Unless specifically recommended, it should not be used in sheep diets because of the risk of copper toxicity

**TYPICAL ANALYSIS**
(Dry matter basis except DM)

<table>
<thead>
<tr>
<th>Component</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td>32%</td>
</tr>
<tr>
<td>Crude Protein</td>
<td>32%</td>
</tr>
<tr>
<td>Oil</td>
<td>4%</td>
</tr>
<tr>
<td>NDF</td>
<td>1%</td>
</tr>
<tr>
<td>Starch</td>
<td>1%</td>
</tr>
<tr>
<td>Sugar</td>
<td>2%</td>
</tr>
</tbody>
</table>

**ME (MJ/KG DM)**: 14.2

---

**HANDLING & STORAGE**
Spey Syrup is delivered in 29 tonne bulk tankers and is available all year round. Tanks should be built to hold and dispatch bulk liquids. They should be well maintained and cleaned out regularly to prevent the build-up of sediment. A 4 inch diameter pipe work is adequate to handle Spey Syrup.

---

**TYPICAL ANALYSIS**
(Dry matter basis except DM)

<table>
<thead>
<tr>
<th>Component</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td>42%</td>
</tr>
<tr>
<td>Crude Protein*</td>
<td>32%</td>
</tr>
<tr>
<td>Oil</td>
<td>1%</td>
</tr>
<tr>
<td>NDF</td>
<td>1%</td>
</tr>
<tr>
<td>Starch</td>
<td>1%</td>
</tr>
<tr>
<td>Sugar</td>
<td>2%</td>
</tr>
</tbody>
</table>

**ME (MJ/KG DM)**: 14.2

As with other liquid products, Creidsyrup is delivered in bulk liquid tankers. Tanks should be built to hold and dispatch bulk liquids and care should be taken to ensure they are cleaned out regularly to prevent a build-up of sediment. 4 inch diameter pipework is adequate.
**EORNASYRUP**

A co-product from the manufacture of whiskey. EORNASYRUP comprises mainly of yeast cells and residues from the malted barley after alcohol is distilled off the fermented wort by high temperature in copper stills.

### KEY BENEFITS

- High in digestible energy
- High level of degradable protein
- Highly palatable
- Ideal to complement low protein forage diets, such as whole crop cereal, maize silage or straw
- Free flowing liquid - easily handled
- High copper content

### FEEDING RATES

**Beef Cattle**
Flexible in the way it may be offered with maximum feed rates being:
- Young stock: 0-1kg/hd/day
- Stores: 2-3kg/hd/day
- Finisher: 4-5kg/hd/day

**Suckler Cattle**
Has successfully been used as the sole ‘concentrate’ feed for in-calf suckler cows on a straw diet. Additional energy may be required after calving

**Dairy Cows**
Can be fed in diet feeders. In concentrated mixes or bail feeders with maximum levels being 3.5-5kg/hd/day

### TYPICAL ANALYSIS

(Dry matter basis except DM)

<table>
<thead>
<tr>
<th></th>
<th>32%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td></td>
</tr>
<tr>
<td>Crude Protein</td>
<td></td>
</tr>
<tr>
<td>Oil</td>
<td>4%</td>
</tr>
<tr>
<td>NDF</td>
<td>1%</td>
</tr>
<tr>
<td>Starch</td>
<td>1%</td>
</tr>
<tr>
<td>Sugar</td>
<td>2%</td>
</tr>
<tr>
<td>ME (MJ/KG DM)</td>
<td>14.2</td>
</tr>
</tbody>
</table>

### HANDLING & STORAGE

Eornasyrup is delivered in bulk liquid tankers. Tanks should be built to hold and dispatch bulk liquids. They should be cleaned out regularly to prevent a build-up of sediment. 4 inch diameter pipework is adequate.

---

**NORTHERNSYRUP**

NORTHERNSYRUP is a co-product from the Great Northern Distillery, Dundalk, Co. Louth. It comprises mainly of yeast cells and residues from malted barley after alcohol is distilled off the fermented wort by high temperature in copper stills.

### KEY BENEFITS

- High in digestible energy
- High level of degradable protein
- Highly palatable
- Ideal to complement low protein forage diets, such as wholecrop, maize silage or straw
- High in copper

### FEEDING RATES

**Dairy Cows**
Can be fed in diet feeders, concentrated mixes or bail feeders with maximum levels being 3.5-5kg/hd/day

**Beef Cattle**
Flexible in the way it may be offered, maximum feed rates:
- Young stock: 0-1kg/hd/day
- Stores: 2-3kg/hd/day
- Finisher: 4-5kg/hd/day

**Suckler Cattle**
Has successfully been used as the sole ‘concentrate’ feed for in-calf suckler cows on a straw diet. Additional energy may be required after calving

**Sheep**
Unless specifically recommended, it should not be used in sheep diets because of the risk of copper toxicity

### TYPICAL ANALYSIS

(Dry matter basis except DM)

<table>
<thead>
<tr>
<th></th>
<th>32%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td></td>
</tr>
<tr>
<td>Crude Protein</td>
<td></td>
</tr>
<tr>
<td>Oil</td>
<td>4%</td>
</tr>
<tr>
<td>NDF</td>
<td>1%</td>
</tr>
<tr>
<td>Starch</td>
<td>1%</td>
</tr>
<tr>
<td>Sugar</td>
<td>2%</td>
</tr>
<tr>
<td>ME (MJ/KG DM)</td>
<td>14.2</td>
</tr>
</tbody>
</table>
MOLASSES

MOLASSES is a dark brown, viscous liquid produced as a co-product of the production of sugar. After dissolving sugars out at high temperature, the crystals of sugar settle out as the liquid cools leaving the molasses, much of which was traditionally mixed back with the pulped fibres to produce molassed sugar beet feed.

FEEDING RATES

Dairy Cows
Ideal for complete diets at up to 3kg/ hd/day. Normal feed rates between 1kg and 2kg

Young Stock
Up to 10% of molasses can be safely included in young stock diets from four weeks of age

TYPICAL ANALYSIS
(Dry matter basis except DM)

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Matter</td>
<td>65-72%</td>
</tr>
<tr>
<td>Crude Protein</td>
<td>6.5%</td>
</tr>
<tr>
<td>Oil</td>
<td>Trace</td>
</tr>
<tr>
<td>NDF</td>
<td>0%</td>
</tr>
<tr>
<td>Starch</td>
<td>Trace</td>
</tr>
<tr>
<td>Sugar</td>
<td>61%</td>
</tr>
<tr>
<td>ME (MJ/KG DM)</td>
<td>12</td>
</tr>
</tbody>
</table>

HANDLING & STORAGE

Delivered in bulk liquid tankers with discounts available for full artic load. Tanks should be built to hold and dispatch bulk liquids and they should be cleaned out from time to time to ensure no build-up of sediment. 4 inch diameter pipework is adequate. Tanks need to be located and equipped so that filling them can be carried out in safe conditions and surroundings.

Molasses is suitable for inclusion in the diets of all ruminant livestock and can offer a very cost effective way to increase the palatability of feeds whilst contributing good levels of energy and protein.
With feed costs at 65-70% of total costs on pig farms, it is paramount that pigs get off to a good start as early life performance has a big impact on lifetime performance.

With good nutrition and management in early life it is possible to achieve over 4kg extra live weight at sale or sell pigs 3 to 4 days sooner. This can make a saving on feed costs or free up fattening accommodation with an earlier sale. This can have a major impact on unit performance and profitability.

Dry sow health status, nutrition and management all impact on piglet birth weight and viability. 80% of birth weight occurs in the last 3 weeks of pregnancy. Optimum colostrum intake within 6 hours of birth to kick start immune system development and obtain vital nutrients into the new born pig is vital. Proper management of large litters at this time is also very important.

Early introduction of creep (4 days) encourages dry feed intake, develops the immune system and builds a healthy bacteria population in the gut. This results in heavier weaning weights, more pigs eating at weaning and less post weaning checks. Creep diets containing high density lactose/milk products, cooked cereals and fish products are all very beneficial in achieving maximum life time performance.

A flexible feeding programme can be formulated by Specialist Nutrition experts based on the unit parameters, herd health status, genetics, housing, feeding system and management. Essential to any feed formulation is a precise understanding of the feeding value of the ingredients being used and only with such knowledge can formulations be truly best cost and consistency in animal performance achieved.

Specialist Nutrition Ireland offers a range of specialist piglet pre-starter feeds, starter feeds, premixes and concentrates for every phase in modern piglet rearing.
**INITIATE 4**

This creep feed has delivered significant benefits at weaning and even more performance benefits post weaning.

**KEY FEATURES**
- 30% drop in pre-weaning mortality
- Average 280g per piglet increased weaning weight
- Up to 1kg heavier piglets at 21-days post weaning

**WHAT EXACTLY DOES INITIATE 4 DO?**

**Rapid uptake and increase intake**
The high levels of lactose in Initiate 4 improves the early acceptance of solid feed, leading to both higher pre-weaning intakes and a smoother transition at weaning.

**Conditions the gut**
The unique formula of Initiate 4 stimulates development and supports the integrity of the piglet’s digestive system.

**Improves viability of piglets**
Initiate 4 is shown to have a dramatic effect on reducing pre-weaning mortality resulting in more piglets weaned per litter.

**Improves pre & post-weaning growth**
The combined benefit of increased pre-weaning feed intake and improved gut condition results in not only an increased weaning weight, but also a dramatically improved nursery exit weight.

**Eases the pressure for prolific sows**
Feeding Initiate 4 alongside the sows milk helps today’s increasingly prolific sows to rear larger, healthier piglets without excessive loss of body condition.

**Makes financially sound sense**
With trial results demonstrating increased weaning weights and improved post-weaning growth, can you afford not to include Initiate 4 in your standard piglet feeding regime?

**LIQUID FEEDS - ALL AGES OF PIGS**

*Specialist Nutrition have for some time being supplying pig farmers in Ireland with key feed ingredients in the form of liquid feeds. These liquids provide a valuable source of energy and protein for all ages of pigs.*
Why not upgrade? Biotal Axphast Gold is the highest spec wet grass treatment on the market. Improved animal performance and effluent reductions of up to 50% from the resultant silage are normal. Its use can also allow you the flexibility of cutting and ensiling grass at higher nitrate levels.

Wet weather conditions and/or low sunlight hours at harvest leave the natural sugars in grass very dilute, <3% of Fresh Weight. This leads to a slow, inefficient and sometimes incomplete fermentation in the clamp or bale. Biotal Supersile Gold contains a patented enzyme package that will release sugar normally locked in the grass fibre. The lactic acid producing bacteria supplied then utilise this sugar to drop the pH of the clamp quickly, preserving valuable protein and nutrients in the silage as efficiently as possible as-well as total clamp/bale DM.

“Using Biotal inoculants allows us to maximise preservation while producing the best quality grass silage.”

Daniel and David Drum, Dairy and Beef Farmers, Delvin, Co. Westmeath.

The sun is a very good additive and that’s why high DM grass (>30%) usually makes well preserved silage. Its higher DM and residual sugar level does however, make it vulnerable to the growth of yeast and mould at feed-out. These harmful spoilage organisms utilize sugar and fermentation acid to grow, producing heat at the clamp face through to the feed barrier. This results in silage waste and a reduction in feeding quality and forage DM intakes. Using Biotal Axcool gold ensures your silage remains cool and stable throughout its feeding period.
ADDITIVES FOR WHOLECROP

BIOTAL WHOLECROP

Wholecrop is harvested using a self-propelled silage harvester which has a head similar to a maize head, so that it can cut and take in cereal plants without grain loss. At the point of harvest an additive is applied to the material which helps ferment the wholecrop to a level where maximum quality is maintained in the clamp and also maintain the stability of the clamp face at feed out.

BIOTAL WHOLECROP GOLD MILL

The additive most widely used throughout the country for wholecrop is called Wholecrop Gold for fermented wholecrop and Wholecrop Gold Mill for hi-dry matter wholecrop.

ADDITIVES FOR CRIMPED CEREALS

BIOTAL BIOCRIMP

Normally grain is harvested when it can only be broken using your thumbnail and forefinger. If the grain can be squashed between the thumb and forefinger, the grain is still too wet. The cereal is cut with a combine harvester and then passed through a crimper roller which cracks the grain. At the crimping stage, an additive known as BioCrimp is applied using a liquid applicator to quickly preserve and maintain aerobic stability. It is then ensiled in a clamp, rolled and covered with a sheet of plastic to the point where the material is air tight.

“Wholecrop Gold has improved preservation, reduced losses and increased the ME of my end product. I have been making wholecrop for 10 years and although I tried it once without an inoculant, I would never make wholecrop without Biotal Wholecrop Gold again.”

Brian Rohan, Dairy Farmer, Shanahoe, Co. Laois.
BIOTAL SOLOMAIZE

As a high Dry Matter high sugar and relatively low protein forage, harvested maize typically results in a quick and efficient fermentation in the clamp requiring no assistance in dropping its pH. The resulting silage is however extremely vulnerable to spoilage during feed-out.

Heating and moulding at the clamp face are the result of air being supplied to the naturally occurring ensiled yeasts. These aerobic organisms can make quick work of this starchy forage so a proven anti-microbial treatment such as Biotal SoloMaize should be applied at harvest.

“"My best investment each year is Biotal SoloMaize. It keeps my maize silage cool, which really pays for itself in the summer time. I would not make maize silage without SoloMaize. “

James Tynan,
Dairy Farmer,
Ardboy, Co Kilkenny.

BIOTAL MAIZECOOL

Why not upgrade? Biotal MaizeCool gold has all the anti-microbial benefits of Biotal SoloMaize and more. Its specific enzyme package also improves the cell wall digestibility of the stover component.
NIR4 Farm allows you to analyse forage, optimise the ration and maximise milk yield. This unique technology gives you the power to take control, meaning you can deliver the most cost-effective ration, based on real-time analysis.

ANALYSE

NIR4 Farm gives you the power to make informed decisions, whenever and wherever you want. The portable, hand-held device enables you to analyse forage - putting you in complete control immediately.

OPTIMISE

Simply scan your feed and NIR4 Farm will immediately show the results, allowing you to adjust the ration as necessary. Not only that, but once connected to Wi-Fi, results automatically upload to the website, meaning you can identify patterns and monitor trends over time - using the results to maximise feeding.

MAXIMISE

The innovative technology and real-time result delivery means you can improve feeding precision by making changes for tomorrow's feed, today. By regularly analysing forage, you can adjust rations accordingly and ensure the correct nutrition is being fed - maximising the chances of improving cow performance.

KEY BENEFITS

- Fast - real-time results for instant decisions
- Reliable - using Aunir calibrations for greater control
- Innovative - cutting-edge technology on a hand-held device
- Simple - easy-to-use with a dedicated support service

Find out more about how you can have real-time analysis in the palm of your hand. Visit www.nir4farm.com or contact a member of our team on (051) 833071
Specialist Nutrition Ireland,
Ballymountain,
Ferrybank, Waterford.
T: +353 (0) 51 833071
E: info@specialistnutrition.ie

www.specialistnutrition.ie

SALES & NUTRITION:

North Leinster  Michael Cleary  086 8048219
South Leinster  Michael Davey  086 0242261
West Munster  Pat Coakley  086 8512301
East Munster  Pat Corbett  086 4670557
Managing Director  Jim Buckley  086 8241861

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