



Welcome to **SCOTMIN**

Formed in 1979, Scotmin Nutrition began as a family business supplying supplements to local farmers, growing into one of the largest supplement businesses in the UK.

Our nutritional experts have over 100 years combined experience in animal nutrition to help ensure that our customers achieve maximum performance at minimum cost. We can do everything from analysing your silage to developing a tailor-made ration for your animals.

As part of our company ethos we strive to reduce our carbon footprint through efficient logistics and by shipping over 57% of our bulk mineral materials via the Port of Ayr, a mere two kilometres from our factory.

Our product range includes mineral supplements, molassed mineral tubs, protein concentrates, forage additives and specialised products.

In June 2010 Scotmin joined Carr's Group plc. Our combined knowledge and expertise will ensure that our customers continue to receive top quality products and unrivalled service.



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KEY: The symbols below are used throughout this booklet to indicate livestock categories









Feed rates are given as per head per day or bags per tonne of cereals

All information contained in this brochure is correct at time of production. Scotmin reserves the right to alter the specification at any time.

Why Feed Mineral Supplements?

Most livestock are fed a forage based ration. Whether it is fresh or conserved the mineral content of such forages does not generally meet the animals' minimum dietary requirement. Modern grassland management further depresses the availability of minerals and trace elements therefore feeding supplements is an important practice to achieve efficient productivity from livestock.

Mineral/ Trace Element	Typical Level in Grass	Typical Dietary Level (cattle)
Calcium %	0.52	0.65
Phosphorus %	0.28	0.38
Magnesium %	0.18	0.30
Sodium %	0.23	0.40
Manganese mg/kg	130	80
Zinc mg/kg	27	90
Cobalt mg/kg	0.15	0.10
lodine mg/kg	0.48	2.00
Selenium mg/kg	0.05	0.30
Copper mg/kg	6.80	20.00

Raw Materials

Whilst many supplement manufacturers work to least cost formulation, Scotmin considers it more important to use the highest quality and most bio-available raw materials at levels required by the animal.

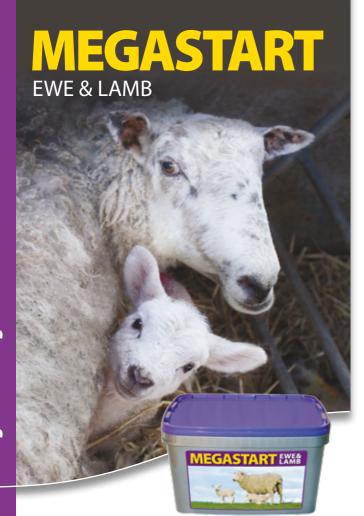
AGMA FG85 Calcined Magnesite is the leading magnesium source on the market and has been used in the manufacture of our supplements for over 25 years. Not only does it have high magnesium content but studies carried out by Glasgow University show AGMA to be the market's most bio-available and consistent product. (Parker & Hemingway 1989, Parker, Ritchie & Hemingway 1989).

	Availability %			
Product	Trial 1	Trial 2		
AGMA	27.0	27.1		
Navarras	26.0	23.2		
Chinese	11.0	12.6		
Greek	15.5	12.6		

A more recent study conducted in Holland showed that 50% more magnesium was absorbed by animals fed AGMA compared to those fed Chinese Cal Mag.

The very consistent particle size found in AGMA is the single most important factor influencing its efficacy. Likewise our phosphorus sources are chosen for their consistently high purity and have superior biological value to most.





An innovative range of pre-lambing/pre-calving products, designed to improve natural defences and colostrum quality in the productive animal.

MEGASTART incorporates a unique single strain yeast cell wall material, rich in mannan-oligosaccharides (MOS) that works by inhibiting the binding of pathogens to the gut wall, thus enhancing digestive efficiency and decreasing pathogen pressure.

Megastart products are packed full of vitamins, minerals and trace elements that give the productive animal all the key nutrients needed to produce healthy thriving offspring.

Available in 20Kg and 80kg Tubs.

MEGASTART EWE & LAMB (5) 100–150g

- A high intake, free access feed tub used in the 4-6 weeks prior to lambing.
- Provides ewes with an excellent source of energy from sugars, starch and protected fat and high quality rumen bypass protein to meet the increased demands of the pregnant ewe.
- A balanced source of minerals, protein and vitamins, including Vitamin E to improve lamb vigour and Vitamin B₁ to reduce problems with CCN.
- Contains a unique MOS, designed to activate the animals' immune system and improve colostrum quality.
- Lactose inclusion provides a readily available carbohydrate source.

Megastart Ewe & Lamb is designed to improve ewe colostrum and improved lamb vitality. Lambs of ewes fed Megastart also show enhanced growth rates during trials at Myerscough College in 2013.

Megastart Ewe & Lamb Specification

Calcium %	6.7
Phosphorus %	0.2
Magnesium %	1.5
Sodium %	3
Manganese mg/kg	500
Zinc (total) mg/kg	1000
Zinc (protected) mg/kg	250
Cobalt mg/kg	20
lodine mg/kg	50
Selenium mg/kg	5
Vitamin A iu/kg	50000
Vitamin D ₃ iu/kg	10000
Vitamin E mg/kg	1000
Vitamin B ₁₂ ug/kg	500
Vitamin B ₁ iu/kg	200
MOS	V
Sugars %	21.3
Oil %	11.9
Protein %	12
ME MJ/kg DM	10.7

	Beef	Dairy	Sheep	Time of Year
Megastart Ewe & Lamb	-	-	8	Spring

MEGASTART

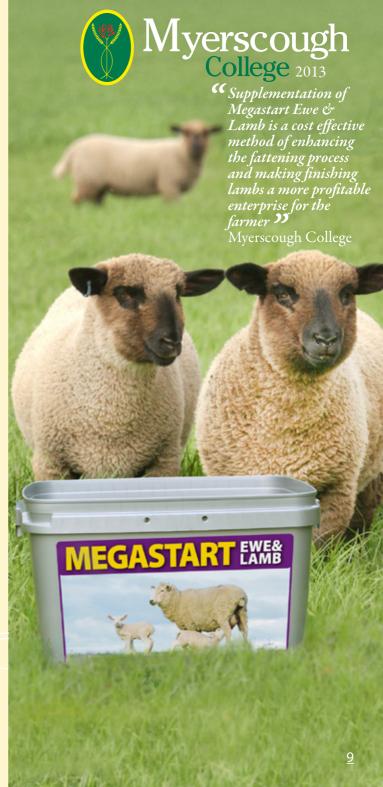
EWE & LAMB RESEARCH

Megastart Ewe & Lamb has proven itself to be a leading pre-lambing supplement, and more recently it has been proven to improve DLWG in lambs at grass. An independent trial conducted at Myerscough College in 2013 involving 120 Texel X lambs shows lambs fed Megastart Ewe & Lamb grow faster compared to lambs fed grass alone. Growth rates of the Megastart and control groups were 160g/day vs120g/day respectively, a 33% statistically significant improvement when Megastart is fed.

A balanced source of minerals, protein and vitamins, Megastart Ewe & Lamb also provides lambs with an excellent source of energy from sugars, starch and protected fat to achieve a quicker finish at grass allowing for a reduction in feed costs and a sharper turn around on finished stock.

The conclusion of the trial states that even after the cost of the product is taken into account, a substantial increase in profit can be achieved when Megastart Ewe and Lamb is made available to lambs at grass.









MEGASTART PRE-CALVER (B) (D) 100–150q

- A supplement for non-lactating cows in the late stages of pregnancy.
- Contains a unique single strain MOS designed to improve gut condition.
- High levels of both selenium and Vitamin E for quality colostrum and optimum calf vitality.
- Low in calcium and high in magnesium to stimulate the cow's metabolism and help reduce the risk of milk fever.
- Typical intake 100-150g per head per day.

Megastart Pre-Calver Specification

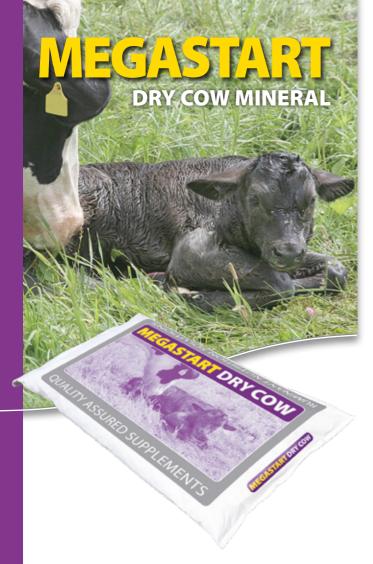
Calcium %	3.6
Phosphorus %	2
Magnesium %	10
Sodium %	6.7
Manganese mg/kg	2000
Zinc (total) mg/kg	4000
Zinc (protected) mg/kg	300
Cobalt mg/kg	80
lodine mg/kg	500
Copper (total) mg/kg	1800
Copper (protected) mg/kg	180
Selenium (total) mg/kg	30
Selenium (Selsaf)	2
Vitamin A iu/kg	200000
Vitamin D ₃ iu/kg	40000
Vitamin E mg/kg	5000
Vitamin B ₁₂ mcg/kg	2000
MOS	/
Sugar %	20
Protein %	2.5
ME DM MJ/kg	4.8

What to Feed and When

	Beef	Dairy	Sheep	Time of Year
Megastart Pre-Calver	0	0	-	Dry Period

Available in 20Kg and 80kg Tubs.

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This low calcium powdered mineral is designed to be fed to the pregnant cow in the last 4-6 weeks of gestation, in order to prepare the cow for calving and lactation. Combining high levels of both Vitamin E and selenium. Megastart Dry Cow Mineral promotes a healthy immune system and is designed to optimise colostrum quality.

The inclusion of MOS acts to trigger an auto-immune response and bind to bacteria and pathogens in the digestive system of the animal, in order to maximise gut health and nutrient absorption. Megastart Dry Cow Mineral will help in the management of a stress-free calving.

MEGASTART DRY COW MINERAL (B) (D) 100–150q



- Incorporates a comprehensive range of minerals and trace elements meaning there is little or no need for further supplementation.
- · Can be fed as part of a pre-calving ration, mixed with cereals, incorporated in a TMR system or simply top dressed.
- Contains a unique single strain MOS to improve gut condition.
- Low levels of calcium to stimulate the cow's metabolism.
- Copper, zinc and selenium included in protected form.
- · Reduces the incidences of milk fever.
- Feeding rate 100-150g head/day.

Megastart Dry Cow Mineral Specification

Calcium %	1.3
Phosphorus %	4
Magnesium %	20
Sodium %	12.8
Manganese mg/kg	3000
Zinc (total) mg/kg	6000
Zinc (protected) mg/kg	500
Cobalt mg/kg	80
lodine mg/kg	500
Copper (total) mg/kg	2000
Copper (protected) mg/kg	200
Selenium (total) mg/kg	40
Selenium (Selsaf) mg/kg	4
Vitamin A iu/kg	500000
Vitamin D ₃ iu/Kg	100000
Vitamin E mg/kg	5000
Vitamin B ₁₂ mcg/kg	3000
MOS	~

What to Feed and When

	Beef	Dairy	Sheep	Time of Year	
Megastart Dry Cow	0	(-	Dry Period	

Available in 25Kg bags.

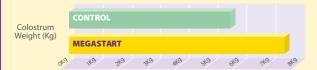
MEGASTART

DRY COW RESEARCH

Megastart Dry Cow Improves Colostrum Yield!

To determine the effects MEGASTART Dry Cow has on colostrum, a trial at Myerscough College was commissioned*. This trial looked at the effect of supplementing pregnant Holstein cross Friesian cows with MEGASTART Dry Cow 4-6 weeks pre-calving, when compared to an ordinary dry cow mineral.

The outcome of the trial was a statistically significant - an extra 1.96kg of colostrum (P=0.024) produced by the MEGASTART group at first milking.

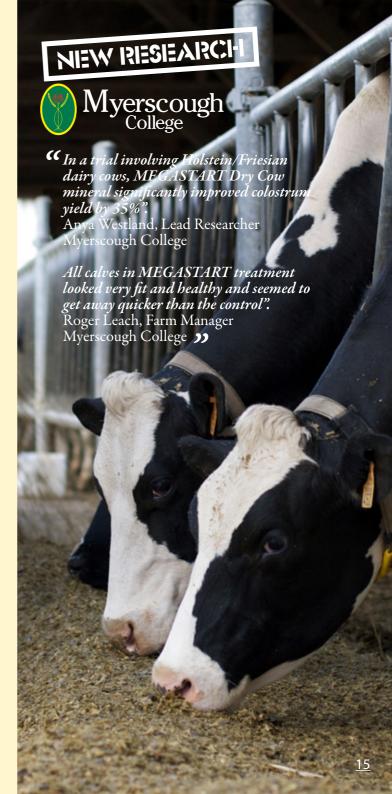


This 35% increase in colostrum production immediately post-calving is good news; extra nutrition (fat, total solids, proteins, electrolytes, vitamins etc.) for the neonatal calf, just when it is required!

The increased colostrum yield did not come with reduced colostrum quality as can be the case with other products. In this trial the Ig content of the colostrum was not statistically different between control and cows receiving MEGASTART resulting in an increased yield of IgG.



The huge reduction in cows culled for not conceiving in the MEGASTART group suggests a stronger immune response and improved egg quality. Keeping just one extra cow in the herd for another lactation saves the rearing cost of a replacement heifer (£1819 average, MDC data) or allows another heifer to be sold to improve farm income.



MEGAMINS



A fully comprehensive range of mineral supplements designed to enhance a wide range of on-farm feeding systems. MEGAMINS are specially formulated to incorporate the most bioavailable raw materials to maximise production efficiency and reduce cost. Developed from years of forage analysis and trend tracking, MEGAMINS is specially tailored to current UK farming requirements.



MEGAMINS Dairy

25 Kg Bags 150g head/day

- Contains a balance of essential traces, minerals and vitamins perfect to balance high to mid yielding dairy diets.
- Ample quantities of phosphorus and magnesium to balance today's dairy diets.
- Contains protected sources of trace elements to ensure uptake in the presence of antagonists within the diet.



MEGAMINS Dairy Plus

25 Kg Bags

200g head/day

- Contains all of the essential qualities of the Megamins Dairy mineral with elevated levels of phosphorus, vitamins and chelates to support higher production levels.
- Perfect for high yielding dairy cows.
- Contains Biosprint yeast to maintain an efficient rumen at peak lactation.



25 Kg Bags

Youngstock 75-100g head/day, Mature livestock 100-150g head/day

- Perfect mineral to balance a range of forage based diets.
- Full of essential vitamins, minerals and trace elements to support production.
- Suitable to balance low yielding dairy cow diets as well as supplementing suckler cows and growing stock.



MEGAMINS Suckler

25 Kg Bags

100-150g head/day

- Specially formulated for suckler cows for all year round use.
- Contains quality sources of minerals and trace elements to support the production needs of a suckler cow.
- Designed to balance UK forage deficiencies.



MEGAMINS High-Mag

25 Kg Bags

100-150g head/day

- High quality magnesium source from Spanish AGMA.
- Flavoured to encourage consistent intakes.
- Increased level of sodium to aid magnesium absorption.
- Fully water-proofed to allow for free access feeding.



MEGAMINS Intensive Beef

25 Kg Bags

100-150g head/day

- Perfect for intensive beef fattening systems.
- Added iron sulphate to protect against low iron cereal and straw based diets.
- Contains no additional magnesium or phosphorus.
- Good levels of salt to stimulate appetite and encourage salivation.



MEGAMINS Calf Menthol

25 Kg Bags

25-60g head/day

- Specifically designed for calves who are temporarily or permanently housed.
- · Packed with vitamins, minerals and trace elements to support good health.
- · Contains a combination of menthol oil, eucalyptus oil and garlic to maintain clear airways.



MEGAMINS Sheep

25 Kg Bags

15-20g head/day

- · Prefect mineral to be fed through a TMR or by top dressing.
- Well balanced to support sheep in the run up to lambing.
- Contains Vitamin B1 to help in protecting against CCN.



MEGAMINS Intensive Lamb

25 Kg Bags

1 bag/tonne of cereal mixed (for in feed use only)

- · Contains ammonium chloride to aid in the prevention of urinary calculi.
- Iron introduced to aid copper lock up.
- Designed for intensively reared lambs.



MEGAMINS Rumen Buffer

25 Kg Bags

100-200g head/day

Acidosis is a condition whereby the pH of the rumen drops to an acidic level such that feed intake is depressed and productivity is reduced. Rumen buffer contains a selection of mineral buffers to ameliorate problems associated with sub-optimal rumen pH and is useful for ruminants on high starch/

cereal diets. Rumen Buffer contains a combination of Acid Buf, magnesium oxide, salt and sodium bicarbonate.

MEGAMINS Biobind

25 Kg Bags

Incorporate into TMR at 50g head/day

Mycotoxins can have devastating effects throughout a herd, and are steadily becoming a bigger issue on-farm. Biobind is a combination of six different raw materials to 'mop up' the main mycotoxins found in feeding stuffs, especially forages and cereals. Mycotoxins that are targeted by Biobind include Fumosinin B1, Zearalenone, Aflatoxin, Vomitoxin



and Ochratoxin making the product broad spectrum.

♦ MEGA	MIN	S					944	Jag	6
PRODUCT SPECIFICATION*	Cattle	VijeO	Dairy Plus	Suckler	High Mag	Sheep	^{Intensive Lam} b	Intensive Beef	Calf Menthol
Calcium %	24.0	21.0	19.5	16.3	10.3	24.6	22.5	26	15.1
Phosphorus %	2.0	4.0	5.0	4.0	1.5	3.0	-	-	2.0
Magnesium %	4.0	5.0	5.0	12.0	20.0	1.0	0.3	0.3	4.0
Sodium %	7.8	7.8	7.8	8.0	11.0	8.0	7.8	10.0	15.0
Sulphur %	0.1	0.1	0.1	-	-	0.1	0.1	0.1	4
Manganous oxide mg/kg	2,000	3,000	3,000	2,000	1,000	3,000	3,000	2,000	2,000
Zinc (total) mg/kg	4,000	6,000	6,000	6,000	1,500	4,000	4,000	2,400	4,000
Zinc oxide mg/kg	4,000	5,750	5,500	6,000	1,500	4,000	4,000	2,400	4,000
Chelated Zinc mg/kg	-	250	500	-	-	-	-	-	-
Cobalt mg/kg	60	80	80	60	60	40	40	40	40
lodine mg/kg	200	400	400	600	100	200	200	75	200
Selenium (total) mg/kg	30	33	40	35	30	25	15	15	20
Selenium (BMP) mg/kg	30	33	35	35	30	25	15	15	20
Selenium yeast mg/kg	-	2.0	5.0	-	-	-	-	-	-
Copper (total) mg/kg	1,500	2,000	2,000	1,500	2,000	-	-	600	1,000
Copper sulphate mg/kg	1,500	1,750	1,500	1,500	2,000	-	-	600	1,000
Chelated copper mg/kg	-	250	500	-	-	-	-	-	-
Iron Suphate mg/kg	-	-	-	-	-	-	2,000	2,000	-
Vitamin A iu/kg	300,000	400,000	500,000	300,000	100,000	400,000	400,000	300,000	300,000
Vitamin D ₃ iu/kg	60,000	80,000	100,000	60,000	20,000	80,000	80,000	60,000	60,000
Vitamin E mg/kg	1,000	2,000	3,000	1,000	500	2,000	1,000	2,500	3,000
Vitamin B ₁ mg/kg	-	-	-	-	-	1,000	-	-	200
Vitamin B ₁₂ mcg/kg	3,000	3,000	3,000	2,000	1,000	3,000	3,000	2,000	2,000
Vitamin B ₂ mg/kg	-	-	-	-	-	-	-	-	200
IF/FA	I/F	I/F	I/F	F/A	F/A	F/A	I/F	I/F	I/F
Biosprint Y/N	N	N	Υ	N	N	N	N	N	N

*product specification correct at time of printing August 2017



Widely regarded as the highest quality molassed mineral tubs on the market, Megalix tubs are a popular and convenient method of providing bio-available minerals, trace elements and vitamins 24 hours a day.

The Megalix range of products are specially formulated to match a wide range of on-farm feeding systems and are an ideal way of supplementing livestock whilst reducing labour demands. Megalix products are fully weatherproof with no waste, meaning livestock eat every last drop.

Available in 20Kg and 80Kg Tubs. Menthol in 8Kg and 20Kg Tubs.

HIGH MAGNESIUM LICKS

Cattle require magnesium in order to prevent hypomagnesaemia (grass staggers). Magnesium uptake by the cow is often challenged through a combination of factors including low levels in spring grass, reduced availability by high levels of potassium, change in diet causing increased rate of passage through the gut, and reduced blood levels during periods of stress.

Magnesium is a bitter tasting mineral not readily taken by animals, however when included in Megalix products, it is presented in a palatable form for optimum uptake, significantly reducing the risk of tetany.

Combining the advantages of AGMA FG85 calcined Magnesite, Megalix high mag licks are market leaders as the most bio-available magnesium supplements. See raw materials guide on page 4.

The recognised supplement of magnesium for adult cattle during the risk periods is 30g per head per day, easily achievable through supplementing with any of the high mag products overleaf.



CATTLE (B) (D) 100–150g

- Cattle mineral lick with protected copper for yearround use.
- Carefully formulated balance of minerals and trace elements to achieve optimum health and performance.
- Includes zinc and iodine, important for skin integrity.

COMPLETE (B) (D) 100–150g

- High specification lick for lactating dairy and suckler cows.
- Generous phosphorus level to prepare the cow for breeding.
- Copper, selenium and zinc content bolstered with protected sources.

CATTLE EXTRA (B) (D) 100–150g

- Specially formulated for the beef cow, summer or winter.
- Increased levels of phosphorous and copper.
- 10% Magnesium (AGMA FG85) widely regarded as the most bio-available and consistent magnesium on the market.





Megalix Specification

	Cattle	Complete	Cattle Extra
Calcium %	12	14.9	11.5
Phosphorus %	2	6	6
Magnesium %	6	5	10
Sodium %	6.7	4	4
Copper (total) mg/kg	1000	2500	1500
Copper (protected) mg/kg	200	500	300
Manganese mg/kg	2000	3000	2000
Zinc (total) mg/kg	3000	6000	3000
Zinc (Protected) mg/kg	-	500	-
Cobalt mg/kg	60	80	80
lodine mg/kg	200	400	200
Selenium (total) mg/kg	30	35	30
Selenium (protected) mg/kg	-	2	-
Vitamin A iu/kg	200000	400000	200000
Vitamin D ₃ iu/kg	40000	80000	40000
Vitamin E mg/kg	500	1000	500
Vitamin B ₁₂ mcg/kg	2000	3000	2000
Sugars	17.9	15	15.6

	Beef	Dairy	Sheep	Time of Year
Cattle	•	()	-	All Year
Complete	•	()	-	All Year
Cattle Extra	B	()	-	Spring/Autumn

QUATTRO MAG CATTLE (B) (D) 150–190g

- Innovative high mag tub with four sources of highly bio-available magnesium.
- Combines two quickly available sources with two slowly released sources of magnesium for the ultimate protection against grass staggers.
- Feed to lactating dairy and suckler cows during known staggers risk periods.

QUATTRO MAG SHEEP (1) (1) 150–190*g* **(3)** 25–35*g*





• Features all the benefits of MEGALIX Quattro Mag Cattle, however does not include copper. Designed to be fed in a mixed grazing system during known staggers risk periods.



Megalix Specification

	Quattro Mag Cattle	Quattro Mag Sheep
Calcium %	6.3	6.5
Phosphorus %	0.8	0.8
Magnesium %	15	15
Sodium %	5.9	5.9
Manganese mg/kg	2000	2000
Zinc mg/kg	3000	3000
Cobalt mg/kg	60	40
lodine mg/kg	200	200
Copper mg/kg	1000	-
Selenium mg/kg	30	30
Vitamin A iu/kg	200000	200000
Vitamin D ₃ iu/kg	40000	40000
Vitamin E mg/kg	250	250
Vitamin B ₁₂ mcg/kg	2000	2000
Sugars %	17.1	17.2

	Beef	Dairy	Sheep	Time of Year*
Quattro Mag Cattle	B	0	-	Spring/Autumn
Quattro Mag Sheep	B	()	9	Spring/Autumn

^{*} and during known staggers risk periods



SHEEP BOOSTER § 30–50q

- Fully balanced with high levels of vitamins, minerals and trace elements to care for ewes and lambs.
- Formulated with a combination of cobalt and Vitamin B₁₂ to help tackle 'pine'.
- Vitamin B₁ (Thiamine) included to reduce instances of CCN.
- · Protected zinc and the inclusion of iodine, selenium and sulphur to encourage good skin, hoof and wool quality.

GARLIC GRAZER (B) (D) 100–150g (S) 30–50g

- lodine and protected zinc to help maintain hoof and skin condition.
- Inclusion of garlic as a natural aid to discourage fly strikes and other biting insects.
- · Generous levels of selenium to support immune function.

MENTHOL (B) (D) (Calves) 30–50q **(S)** (Lambs) 5–20q

- Contains a combination of menthol oil, eucalyptus oil, aniseed and garlic to maintain clear airways in calves and lambs.
- · A natural way to help reduce the incidences of respiratory irritation.
- Available in 8Kg and 20Kg Tubs





Megalix Specification

	Sheep Booster	Garlic Grazer	Menthol
Calcium %	13.2	12.5	12.6
Phosphorus %	3	2	3
Magnesium %	4	4	3
Sodium %	6	7.8	8
Manganese mg/kg	2000	2000	2000
Zinc (total) mg/kg	5000	3000	4000
Zinc (Protected) mg/kg	2000	=	1000
Cobalt mg/kg	40	40	40
lodine mg/kg	400	200	400
Selenium mg/kg	20	30	20
Vitamin A iu/kg	200000	200000	400000
Vitamin D ₃ iu/kg	40000	40000	80000
Vitamin E mg/kg	1000	250	4000
Vitamin B ₁₂ mcg/kg	4000	2000	2000
Vitamin B ₁ mg/kg	500	=	200
Sugars	17.9	17.9	15.6

	Beef	Dairy	Sheep	Time of Year
Sheep Booster	-	-	0	All Year
Garlic Grazer	B	()	8	All Year
Menthol (Calves & Lambs)	(B)	(8	All Year



ProPlus is a leading range of molasses feed tubs that supply livestock with high energy from sugars and protected fat, whilst providing protein from high quality hypro soya (Digestible Undegradable Protein*). Designed to help balance low protein diets and highly fermentable grass based diets, the ProPlus range is carefully balanced with vitamins, minerals and trace elements allowing livestock to achieve optimum performance. The ProPlus range can be incorporated into a number of on-farm feeding systems and is a convenient way to supplement livestock 24 hours

PROPLUS COMPLETE (B) (D) 100–150*q* **(S)** 20–50*q*

- Contains DUP* to complement grazing.
- Energy benefit from sugars and protected fat.
- Minerals, vitamins and trace elements to balance typical pasture shortfall.
- · Ideal for ewes mid-gestation and summer grazing lambs.

PROPLUS CATTLE (B) (D) 100-150q



- A supplement to complement pasture based diets.
- Rumen by-pass protein from soya bean meal to complement grazing.
- Protected fat and sugar provide cattle with a useful source of energy.
- Vitamins, minerals and trace elements incorporated to balance shortfalls in forage.
- Added copper to specifically meet the needs of cattle.

PROPLUS PRE-TUPPING 30–50q



- · Protein and energy lick designed to promote optimum fertility in both the ewe and tup at tupping time.
- · Provides high energy in the form of protected fat.
- Full range of trace elements to encourage ovulation.



PROPLUS MAG (B) (D) 150–200g **(S)** 20–50g

- A protein and energy lick containing four sources of magnesium, two slow releasing and two fast releasing, providing the ultimate protection against staggers.
- Targeted supplementation of protein for autumn and spring grazing.
- Suitable for mixed grazing (cattle and sheep).

PROPLUS MAG CATTLE (B) (D) 150–200g

 All the benefits of ProPlus Mag, with added copper and an increased level of cobalt to meet the specific needs of cattle.

What to Feed and When

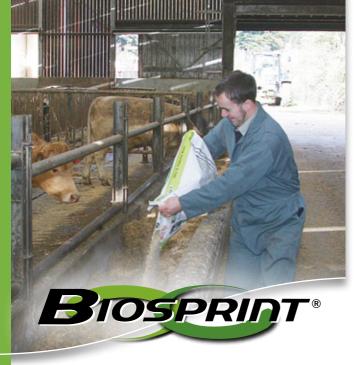
	Beet	Dairy	Sheep	lime of Year
Complete	B	(•	All Year
Cattle	B	(-	All Year
Pre-Tupping	-	-	8	Tupping
Mag	B	(8	Spring/Autumn
Mag Cattle	B	(-	Spring/Autumn

ProPlus Specification

	Complete	Cattle	Pre-Tupping	Мад	Mag Cattle
Protein %	16	16	10	10	10
Calcium %	6.0	6.0	8.0	6.0	6.0
Phosphorus %	1.0	1.0	3.0	1.0	1.0
Magnesium %	3.0	3.0	2.0	11.0	11.0
Sodium %	5.3	5.2	1.8	3.5	3.1
Copper (total) mg/kg	-	1000	-	-	2000
Cobalt mg/kg	40	60	40	40	60
lodine mg/kg	200	200	400	200	200
Manganese mg/kg	2000	2000	2000	2000	2000
Selenium (total) mg/kg	20	20	22	20	20
Selenium (protected) mg/kg	-	-	2	-	-
Zinc (total) mg/kg	3000	3000	3000	3000	3000
Zinc (protected) mg/kg	-	-	300	-	-
Vitamin A iu/kg	200000	200000	100000	200000	200000
Vitamin D3 iu/kg	40000	40000	20000	40000	40000
Vitamin E mg/kg	250	250	500	250	250
Vitamin B12 mcg/kg	2000	2000	2000	2000	2000
ME (DM) MJ/kg	8.3	8.3	10.8	6.4	6.4



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BIOSPRINT FARM MIX (B) 34*q* **(D)** 40-50*q*

Biosprint is a specific live yeast (Saccharomyces cerevisiae BCCM[™] / MUCL39885), its principle purpose is to improve rumen function and stimulate appetite to achieve efficient and profitable production.

Biosprint reduces the risk of feed related digestive upsets and helps animals meet their genetic potential by giving the rumen a chance to work at its best. Biosprint enhances microbial activity in the rumen and stimulates the proliferation of fibre digesting and lactic utilising bacteria. The main effects of Biosprint in the rumen are:

- Stimulation of fibre digesting and lactate utilising microbes helping to maintain the rumen at optimal pH.
- Live yeast uses up oxygen in the rumen and helps maintain the anaerobic environment rumen bugs prefer.
- · Increases microbial protein supply.

Fully approved as an EU feed additive Biosprint has been proven in several trials to increase the milk yield of dairy cattle and improve live weight gain in beef cattle.

FARM MIX FOR DAIRY

The benefits of feeding Biosprint can be easily observed:

- Improved milk yield by up to 2.5 litres per day.
- Milk quality improved by stimulating protein response.
- · Increased dry matter intake.

FARM MIX FOR BEEF

Research on beef cattle has also identified huge benefits of feeding Biosprint:

- Up to 11% increase in DLWG.
- Improved carcass conformation.
- · Reduced risk of feed related acidosis.
- Improved feed conversion efficiency.

Biosprint is ideally suited to all TMR feed systems, in precalving rations, during lactation and where high levels of starchy feeds and concentrates are being fed. Farmers who have already used the product note that cattle seem more content, are cudding better and production is improved.

Biosprint can be fed as a straight feed as Biosprint Farm Mix or included in both mineral supplements, protein concentrates and molassed mineral licks.

Feed Rate

Biosprint Farm Mix:

Dairy 40-50g per head per day. Beef 34g per head per day. Available in 25kg bags.

BEEF BIOSPRINT (B) 1909

Beef Biosprint is the best selling beef mineral produced by Scotmin. Specifically formulated to balance farm feed and supply Biosprint for efficient beef production. Can be fed free access or mixed with cereals or alternatively incorporated into a TMR.

Beef Biosprint Specification

Calcium %	26
Phosphorus %	1.5
Magnesium %	1
Sodium %	7.8
Manganese mg/kg	2000
Zinc mg/kg	4000
Cobalt mg/kg	40
lodine mg/kg	200
Copper mg/kg	1000
Selenium mg/kg	20
Vitamin A iu/kg	300000
Vitamin D ₃ iu/Kg	60000
Vitamin E mg/kg	1000
Vitamin B ₁₂ mcg/kg	2000
Biosprint Live Yeast	~

What to Feed and When

	Beef	Dairy	Sheep	Time of Year
Farm Mix	•	0	-	All Year
Beef	•	-	-	All Year

Feed Rates:

Beef Biosprint:

Incorporate at one bag per tonne of cereals, typical intakes 190g per head per day. Available in 25kg bags.







A unique range of protein supplements incorporating Biosprint live yeast designed to balance home mixed rations.

High quality blend of assured protein sources together with high energy oils, minerals, vitamins and trace elements. The versatile Superfeed range can complement any ration; mixed with cereals, incorporated in TMR systems or simply top dressed.

Available in 25Kg bags.

SUPERFEED M (B) 3-4 bags

- A leading protein balancer for cattle including Biosprint Live Yeast.
- · High energy and an excellent source of rumen by-pass
- Balances silage based diets high in rumen-degradable protein.
- Ideal for suckler cows, calves, store and finishing beef cattle.

SUPERFEED S 3-7 bags

- To balance the requirements of the ewe in late pregnancy and early lactation.
- · Generous levels of Vitamin E and selenium are included to enhance lamb vigour.
- · Contains Biosprint live yeast.
- A valuable supplement for lamb creep, fattening lambs, and also pedigree tup mixes.

SUPERFEED 60 (B) 2-3 bags

- Designed to balance the diets of animals fed poor quality roughage, straw or intensive cereal diets.
- Contains natural protein and urea to enhance digestibility of feed.
- Biosprint inclusion reduces the potential problems associated with feeding high cereal diets.

THRIVON SUPERCOD (B) (D) 100–120g **(S)** 25g

- · A traditional formulation, rich in cod liver oil and omega-3 fatty acids imparting a shiny coat and supple skin on all stock.
- Especially beneficial for young stock and all showing animals.
- Can be used alone or in conjunction with any Superfeed balancer.

Superfeed Specification

	Superfeed M	Superfeed S	Superfeed 60	SuperCOD
Protein %	44	40	60	9
Calcium %	3	4.7	10	5.9
Phosphorus %	0.6	0.7	0.4	0.3
Magnesium %	0.2	0.3	0.3	0.2
Sodium %	-	-	2.5	4
Manganese mg/kg	500	500	500	-
Zinc mg/kg	800	800	800	4
Cobalt mg/kg	25	40	25	-
lodine mg/kg	20	20	20	300
Copper mg/kg	400	-	400	-
Selenium mg/kg	5	5	5	-
Vitamin A iu/kg	80000	80000	80000	39500
Vitamin D ₃ iu/kg	16000	16000	16000	70000
Vitamin E mg/kg	500	1000	500	1000
Vitamin B ₁₂ mcg/kg	=	250	-	1000
Vitamin B ₁ mg/kg	-	100	-	500
Biosprint Live Yeast	~	~	~	-

	Beef	Dairy	Sheep	Time of Year
Superfeed M	B	-	-	All Year
Superfeed S	-	-	8	All Year
Superfeed 60	•	-	-	All Year
Thrivon SuperCOD	•	0	8	All Year

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SCOTMIN NUTRITION

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