



### Free access minerals

At W.E. Jameson we supply a full range of minerals & vitamin supplements for feeding to cattle and sheep. Some are suitable for only feeding to cattle and some can be used for both. Our supplements can be offered free access or mixed with other feeds. We have specific products for dry cows and ones designed to improve fertility in both cattle and sheep. Our High mag minerals help to prevent grass staggers in spring and autumn and our High Phos dairy minerals will support fertility. For sheep we offer Ease lamb and fertility minerals and Cattle General health can be used for all classes of cattle.

- Cattle General Health minerals
- Dairy health & fertility
- Transitional cow minerals
- High Mag GP minerals
- High Phos dairy minerals
- Ease lamb & fertility minerals

We can also design vitamin and mineral products especially for your farm, based on a forage mineral analysis.





**Cattle General Health minerals (cattle only)**

These minerals are suitable for feeding many different classes of cattle, including stores, finishers, sucklers and dairy cows. Calcium level is high to support growth and development. Copper is provided to prevent deficiencies which affect fertility and impaired milk production. Iodine is supplied at a high level so that calves born are strong and viable. Selenium, zinc & vitamin E are included as this is needed for the immune system to help prevent disease and retained cleansings after calving. Cobalt and manganese is needed for good growth rates. Cobalt also has a role in vitamin B<sub>12</sub> supply, which is needed for energy metabolism. Vitamin A and D<sub>3</sub> are needed for growth and vitamin A is also essential for eye function.

<b>Major Minerals</b>	
Calcium %	22
Phosphorus P %	3
Magnesium %	4
Sodium %	8
<b>Trace Elements</b>	
Copper mg/kg	1800
Protected Copper mg/kg	-
Cobalt mg/kg	90
Iodine mg/kg	250
Zinc mg/kg	4000
Protected Zinc mg/kg	-
Manganese mg/kg	4000
Selenium mg/kg	25
Protected Selenium mg/kg	-
<b>Vitamins</b>	
Vitamin A iu/kg	320000
Vitamin D <sub>3</sub> iu/kg	64000
Vitamin E iu/kg	600
Vitamin B <sub>12</sub> (mcg/kg)	1500





### Dairy health & fertility (cattle only)

These minerals are suitable for feeding to dairy cattle. Features of these minerals include calcium supplied at good levels to support milk production. Phosphorus is required to promote fertility and is included at high levels. Magnesium is needed for feed intake and performance. Cobalt has a role in vitamin B<sub>12</sub> supply, which is needed for energy metabolism. Copper is needed for fertility and efficient growth, some protected copper is included to combat antagonism from other minerals in the forage. Cattle with sodium deficiency will show a salt craving, sodium is supplied in these minerals. Iodine is included at a good level for normal oestrus cycling and viable early fetuses. Zinc & selenium are added to help the immune system, both these minerals are included in a protected form to help avoid tie-up from other minerals. Vitamin A and D<sub>3</sub> are needed for growth and vitamin A is also essential for eye function.

<b>Major Minerals</b>	
Calcium %	17
Phosphorus P %	8
Magnesium %	5
Sodium %	8
<b>Trace Elements</b>	
Copper mg/kg	3500
Protected Copper mg/kg	1000
Cobalt mg/kg	90
Iodine mg/kg	500
Zinc mg/kg	8000
Protected Zinc mg/kg	2000
Manganese mg/kg	6000
Selenium mg/kg	40
Protected Selenium mg/kg	10
<b>Vitamins</b>	
Vitamin A iu/kg	500000
Vitamin D <sub>3</sub> iu/kg	100000
Vitamin E iu/kg	8000
Vitamin B <sub>12</sub>	1000





**Transitional cow minerals (cattle only)**

These minerals are suitable for feeding to cattle in late pregnancy. Features of these minerals include a low calcium levels to avoid milk fever in early lactation. Phosphorus is required to promote feed intake and fertility in the subsequent lactation. Magnesium is needed for feed intake and performance. Cobalt has a role in vitamin B<sub>12</sub> supply, which is needed for energy metabolism. Copper is needed for fertility and efficient growth and some is included in a protected form which will help combat interactions from other minerals.

Cattle with sodium deficiency will show a salt craving, sodium is supplied in these minerals. Iodine is included at a good level to support calf development. Zinc & selenium are added to help the immune system, both these minerals are included in a protected form to help avoid tie-up from other minerals. Vitamin A and D<sub>3</sub> are needed for growth and vitamin A is also essential for eye function.

<b>Major Minerals</b>	
Calcium %	2
Phosphorus P %	8
Magnesium %	15
Sodium %	10
<b>Trace Elements</b>	
Copper mg/kg	3100
Protected Copper mg/kg	600
Cobalt mg/kg	90
Iodine mg/kg	500
Zinc mg/kg	6600
Protected Zinc mg/kg	600
Manganese mg/kg	6250
Selenium mg/kg	35
Protected Selenium mg/kg	10
<b>Vitamins</b>	
Vitamin A iu/kg	500000
Vitamin D <sub>3</sub> iu/kg	100000
Vitamin E iu/kg	10000
Vitamin B <sub>12</sub>	2000





### High Mag GP minerals

These minerals are suitable for feeding to a wide range of cattle, including stores, finishers, sucklers and dairy cows. These minerals will be useful where stock is at risk from grass staggers. Calcium level is high to support growth and development and milk production. No copper is included in this mineral, so it could be fed to sheep if needed. Iodine is supplied at a high level so that calves born are strong and viable. Iodine is also needed for normal oestrus cycling and viable early fetuses. Selenium & vitamin E are included as this is needed for the immune system to help prevent disease and retained cleansings after calving. Cobalt and manganese is needed for good growth rates. Cobalt also has a role in vitamin B<sub>12</sub> supply, which is needed for energy metabolism. Vitamin A and D<sub>3</sub> are needed for growth and vitamin A is also essential for eye function.

<b>Major Minerals</b>	
Calcium %	13
Phosphorus P %	3
Magnesium %	20
Sodium %	8
<b>Trace Elements</b>	
Copper mg/kg	-
Protected Copper mg/kg	-
Cobalt mg/kg	90
Iodine mg/kg	300
Zinc mg/kg	-
Protected Zinc mg/kg	-
Manganese mg/kg	5000
Selenium mg/kg	35
Protected Selenium mg/kg	-
<b>Vitamins</b>	
Vitamin A iu/kg	400000
Vitamin D <sub>3</sub> iu/kg	80000
Vitamin E iu/kg	3000
Vitamin B <sub>12</sub>	1500





### High Phos dairy minerals

These minerals are suitable for feeding to dairy cattle and sucklers that require higher phosphorus levels. These minerals will be useful where levels of phosphorus are low and affecting fertility. Calcium level is high to support growth and development and milk production. Copper is needed for fertility and efficient growth. Iodine is also needed for normal oestrus cycling and viable early fetuses. Selenium & vitamin E are included as this is needed for the immune system to help prevent disease and retained cleansings after calving. Cobalt and manganese is needed for good growth rates. Cobalt also has a role in vitamin B<sub>12</sub> supply, which is needed for energy metabolism. Vitamin A and D<sub>3</sub> are needed for growth and vitamin A is also essential for eye function.

<b>Major Minerals</b>	
Calcium %	17
Phosphorus P %	9
Magnesium %	5
Sodium %	8
<b>Trace Elements</b>	
Copper mg/kg	2500
Protected Copper mg/kg	-
Cobalt mg/kg	90
Iodine mg/kg	600
Zinc mg/kg	6000
Protected Zinc mg/kg	-
Manganese mg/kg	6000
Selenium mg/kg	30
Protected Selenium mg/kg	-
<b>Vitamins</b>	
Vitamin A iu/kg	500000
Vitamin D <sub>3</sub> iu/kg	100000
Vitamin E iu/kg	1500
Vitamin B <sub>12</sub>	-





### Ease lamb & fertility minerals

These minerals are designed to be fed to sheep to improve fertility and lamb numbers. Calcium level is high to support growth and development and there is no added copper. Iodine is supplied at a good level so that lambs born are strong and viable. Vitamin E is included as this is needed for the immune system to help prevent disease. Selenium and zinc are included at a good level, with some supplied in a protected form, these minerals help support a healthy immune system. Cobalt and manganese is needed for good growth rates. Cobalt also has a role in vitamin B<sub>12</sub> supply, which is needed for energy metabolism. Vitamin A and D<sub>3</sub> are needed for growth and vitamin A is also essential for eye function.

<b>Major Minerals</b>	
Calcium %	19
Phosphorus P %	5
Magnesium %	3
Sodium %	10
<b>Trace Elements</b>	
Copper mg/kg	-
Protected Copper mg/kg	-
Cobalt mg/kg	90
Iodine mg/kg	300
Zinc mg/kg	3000
Protected Zinc mg/kg	1000
Manganese mg/kg	5000
Selenium mg/kg	30
Protected Selenium mg/kg	5
<b>Vitamins</b>	
Vitamin A iu/kg	400000
Vitamin D <sub>3</sub> iu/kg	80000
Vitamin E iu/kg	6000
Vitamin B <sub>12</sub> (mcg/kg)	1500

