

Watch for the signs of trace element and calcium deficiencies

The following are visible signs of trace element and calcium deficiencies but it must be remembered that in the case of a sub-clinical or slight deficiency, the effect is likely to be invisible to the naked eye. Nevertheless a 5-10% loss of general performance could result.

Copper

- Anaemia leading to stunted and unthrifty growth
- Scouring/diarrhoea
- Reduced milk production and quality
- Coat colour change (rusty)
- Loss of hair pigment from around eyes (spectacles)
- Lesions in brain stem and spinal cord (swayback)
- Poor oestrus, reduced conception
- Bone disorders
- Loss of immunity to disease

Selenium

- White muscle disease (muscular dystrophy) in young stock
- Increased incidents of retained placenta
- Reduced antibody response when challenged by infection

Calcium

- Soft bones
- Stiff joints
- Reduced milk yield
- Milk fever

Cobalt

- Inability of animal to utilise energy in diet (pining)
- Anaemia
- Poor growth or weight loss
- Reduced milk production
- Infertility
- Susceptibility to infection
- Loss of appetite

Iodine

- Enlarged thyroid (goitre)
- Reduced milk production
- Reduced reproductive activity (irregular oestrus)
- Increased number of stillborn and weak calves
- Increased incidents of retained placenta

Zinc

- Dry, crusty, scaly skin
- Feet problems - poor hoof strength and lameness - interdigital skin between the claws
- Reduced sperm production

Your local stockist or merchant

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Fortify6

SOIL & GRASSLAND ENHANCER

Provides Essential

- **Copper**
- **Selenium**
- **Iodine**
- **Cobalt**
- **Zinc**
- **Calcium**

*Supplied
in 25kg
bags*

AGWAY®

With **Fortify6** you can be sure stock receive essential trace elements at grass. Whilst grass is the most economic and abundant animal feed available, it cannot be relied upon to supply adequate levels of the key trace elements.

These problems must be corrected if livestock health and performance are to be maintained and optimum returns achieved. **Fortify6** is the answer.

What is **Fortify6**?

Fortify6 is a granular trace element supplement with the following analyses:

Fortify6 contains

Calcium	36%	
Copper	2.3%	(23,000 ppm)
Zinc	1.2%	(12,000 ppm)
Cobalt	0.1%	(1,000 ppm)
Iodine	0.1%	(1,000 ppm)
Selenium	0.03%	(300 ppm)

CALCIUM

- For strong bone formation
- Helps prevent milk fever

SELENIUM

- To help prevent retained placenta
- Helps improve fertility
- Helps boost the immune system in young stock
- Helps prevent muscular dystrophy

COBALT

- Encourages appetite
- Improves feed conversion - more from your feed

COPPER

- Needs for improved fertility
- Helps improve growth rates in young stock
- Needed to help prevent scours in calves/lambs
- Improves coat/condition

IODINE

- Helps improve fertility
- Helps prevent re-absorption of foetus
- Helps prevention of still born calves

ZINC

- Helps harden hooves
- For the improvement of feed conversion
- Has a beneficial effect on skin condition



Using **Fortify6**

Application rates and timing

Apply one 25kg bag per acre (62.5kg/ha) ideally up to 14 days before stock are expected to graze or 8 weeks before silage is due to be cut using a conventional spinner or spreader.

Fortify6 can be applied in combination with fertiliser providing thorough mixing is achieved.

Only one application each year is necessary. Fields for grazing or 1st cut silage should be treated in March or April.

How **Fortify6** Works

The essential nutrients supplied by **Fortify6** are taken up by the grass root system.

This continues throughout the whole of the grass-growing season whether the grass is grazed or conserved.

As your animals consume the grass or silage they take up these nutrients in every mouthful they eat. It's as simple as that.

Fortify6 More Efficient

Because **Fortify6** trace elements are consumed as stock graze or eat silage, no animal misses out. Compare this with other forms of supplementation.

FEED BLOCKS

Trials at Glasgow University Veterinary School showed that only 4 animals out of every 10 consumed the recommended level of nutrients from feed blocks and 3 out of 10 were likely to under-perform because of low block intakes.

BOLUSES

Another alternative is boluses but these are labour intensive and stressful to administer. And there's always the risk that a bolus will be regurgitated – but by which animal?

INJECTIONS

Injections are another possibility, but again a labour intensive operation and one which is very stressful to the animals often resulting in checks in performance and marked carcasses.



Fortify6 Advantages

- ✓ **Fortify6** ensures that all cattle, receive essential trace elements every day.
- ✓ Grass becomes more palatable and digestible resulting in improved grazing down of the regrowth.
- ✓ Dairy cows produce more milk from grass.
- ✓ Beef cattle finish faster with better quality carcasses.
- ✓ Health and fertility are improved and there are fewer reproductive problems.
- ✓ Animal trace elements deficiencies and nutrient 'lock up' are overcome.
- ✓ **Fortify6** stimulates clover
- ✓ As well as responding to the correct soil pH (6.2-6.5) and phosphate and potash, clover thrives on trace elements. The bacteria, called Rhizobia, which fix atmospheric nitrogen for use by plants, reside in the clover root nodules and have a specific need for trace elements. Cobalt in particular stimulates the bacteria.
- ✓ Provides a lining agent for the soil