

HI-RANGE Select Summer Mineral



Beef cattle require at least 17 different minerals and 3 essential vitamins to maintain life, maximize growth and support reproductive processes.

It has been estimated that cattle not receiving mineral supplementation are deficient in at least 2 minerals and may be as many as 5. Nutrient deficiencies in cattle may directly result in up to 20 different production and health related disorders that will significantly reduce herd performance and profitability.

The HI-RANGE Select Summer mineral is a pasture mineral designed for dry or late grass feeding.

This mineral is balanced with macro and micro minerals as well as vitamins. In addition, the HI-RANGE Select Mineral also contains IntelliBond Copper and Zinc to ensure maximum bio-availability of nutrients to the animal. IntelliBond has been shown to improve mineral stability and reproductive performance as well as increase palatability and fibre digestibility.

HI-RANGE Select Summer Mineral



What's in the bag?

HI-RANGE Select Summer Mineral is a fully fortified mineral that provides macro and micro minerals, as well as vitamins. Every bag of HI-RANGE Select Summer Mineral contains:

- Optimal levels of essential minerals and vitamins to balance forage sources and meet the nutritional needs of the cow
- Fortification with IntelliBond® Copper and Zinc
 - Increased Bioavailability
 - Increased Palatability
 - Increased Stability
 - Increased Fibre Digestibility
- Flavours, aromas and enhancers attract which cattle to the mineral, help to maintain consumption, and reduce with fluctuating consumption patterns across the whole herd
- Weather protection
- Garlic option available to help prevent fly challenges

MAGNESIUM		Mg	IODINE		I	CALCIUM		Ca	SELENIUM		Se
Functions	Metabolic activity in enzyme systems, nerve and muscle function, bones		Functions	Hormones in thyroid gland associated with energy metabolism		Functions	Bone structure, smooth muscle function		Functions	Cellular antioxidant, immunity, thyroid enzyme activator	
Deficiency	Hypomagnesaemia (grass staggers), nervousness, tremors, staggering		Deficiency	Reproductive abnormalities, birth of hairless, weak or dead offspring, goitre (swelling in the neck area)		Deficiency	Impaired growth rate, weak bones, impaired smooth muscle function		Deficiency	Muscle degeneration (white muscle disease), reduced growth, infertility (cystic ovaries, retained placenta, metritis), udder health	
Toxicity	Reduced feed intake and growth rate		Toxicity	Decreased weight gain and feed intake, ocular discharge, salivation, decreased milk production		Toxicity	Calcium is unlikely to reach toxic levels itself, however, high intakes of dietary Ca may suppress intake and reduce availability of other minerals (e.g Zinc).		Toxicity	Dullness, stiffness, hoof deformities, hair loss, blind staggers, death from respiratory failure	
IRON		Fe	MANGANESE		Mn	COBALT		Co	ZINC		Zn
Functions	Blood haemoglobin metabolic activity in enzyme systems		Functions	Metabolic activity in enzyme systems		Functions	Energy metabolism (Essential Component of vitamin B12)		Functions	Metabolic activity in over 200 enzyme systems including hormonal and immunity systems, keratin formation	
Deficiency	Anaemia		Deficiency	Retarded growth, skeletal abnormalities, ataxia of newborn, reproductive failure		Deficiency	Reduced growth & body condition		Deficiency	Reduced feed intake, and growth rate, skin problems, stiff joints, swollen feet, lameness, mastitis	
Toxicity	Uncommon - reduced growth rate, phosphorus deficiency, diarrhoea		Toxicity	Reduced feed intake and growth rate		Toxicity	As per deficiency due to 'inactive' analogues of vitamin B12		Toxicity	Negative impact on copper uptake so toxicity is mostly associated with copper deficiency	
COPPER		Cu	SODIUM & CHLORIDE		Na + Cl	PHOSPHORUS		P			
Functions	Metabolic activity in enzyme systems		Functions	Body fluid balance, nerve impulse, nutrient absorption, salivation		Functions	Energy metabolism, body fluids, rumen activity				
Deficiency	Anaemia, poor growth, infertility, scouring, bone disorders, weak calves, depigmentation of hair (especially around eyes)		Deficiency	Reduced feed intake and growth rate, shivering, weakness, dehydration, death		Deficiency	Unthriftiness, reduced appetite and growth rate, reduced fertility, weak bones				
Toxicity	Liver necrosis (leading to death)		Toxicity	Dependent upon water availability, weight loss, collapse		Toxicity	Induced calcium deficiency, urinary calculi				

To discuss your herd's mineral needs, please contact your Trouw Nutrition Representative, or visit our website for a complete list of our locations across Western Canada.