



Four Options:

The first 3 ingredient materials shown below are for entities who will make their own product formulation (for use as ingredients for their own independent Animal Feed Supplements, Mulch, or Fertilizer and Soil Amendments products). These first 3 materials come in one-ton super sacks or shipping containers as raw material ingredients, as Calcium, pH and Magnesium increasers. All material must be used in consultation with your qualified animal nutritionist, agriculturist and soil agronomist.

B1 approx 19.5 percent calcium with approx 1 percent magnesium, and various trace minerals

SB-1 approx 25.74 percent calcium with approx 1.03 percent magnesium and various trace minerals

SMC-1 approx 18.85 percent calcium with approx 1.310 magnesium and various trace minerals

3x Pellets We also offer our own manufactured **ANIMAL FEED SUPPLEMENT INGREDIENT PELLETS:** Stock # 3x Animal Feed Supplement Ingredient Pellets with the guaranteed analysis on the label.

#B1 Approx 19.5 percent calcium with approx 1 percent magnesium, and various trace minerals, with high pH. For entities who will make their own product formulation (for use as ingredients for their own independent Animal Feed Supplements, Mulch, or Fertilizer/Soil Amendments products). This comes in super sacks or containers as raw material ingredients.

B1 Lab Analysis:

Nutrients Analyzed	Analysis	lb/Ton
	Dry Wt. Basis	As Received Basis
Total N, (TCN) %	0.20	3.60
Total Carbon %	7.58	136.59
C:N Ratio	37.9:1	
Nitrate-N, ppm	48.00	0.09
P2O5, %	0.059	1.06
K2O, %	0.150	2.70
Calcium, %	19.500	351.39
Magnesium, %	1.000	18.02
Sulfur %	0.870	15.68
Zinc, ppm	6.0	0.011
Iron, ppm	5294.0	9.540
Manganese, ppm	153.0	0.276
Copper, ppm	2.0	0.004
Boron, ppm	15.0	0.027
Sodium, %	0.260	4.69
P, %	0.026	0.5
K, %	0.124	2.2
pH, as received	8.5	
Salts as EC, mmhos/cm	3.5	
Dry Matter, %	90.10	1802

#SB-1 Approx 25.74 percent calcium with approx 1.03 percent magnesium and various minerals, with high pH. For entities who will make their own product formulation (for use as ingredients for their own independent Animal Feed Supplements, Mulch, or Fertilizer/Soil Amendments products). This comes in super sacks or containers as raw material ingredients.

SB-1 Lab Analysis:

Nutrients Analyzed	Analysis	lb/Ton
	Dry Wt. Basis	As Received Basis
Total N, (TCN) %	0.15	2.81
Total Carbon %	7.70	144.30
C:N Ratio	51.3:1	
Nitrate-N, ppm	20.00	0.04
P2O5, %	0.072	1.35
K2O, %	0.340	6.37
Calcium, %	25.740	482.37
Magnesium, %	1.030	19.30
Sulfur %	1.210	22.68
Zinc, ppm	14.0	0.026
Iron, ppm	7137.0	13.375
Manganese, ppm	162.0	0.304
Copper, ppm	12.0	0.022
Boron, ppm	27.0	0.051
Sodium, %	0.340	6.37
P, %	0.032	0.6
K, %	0.282	5.3
pH, as received	8.2	
Salts as EC, mmhos/cm	3.7	
Dry Matter, %	93.70	1874

SMC-1 approx 18.85 percent calcium with approx 1.310 magnesium and trace minerals. with high pH. For entities who will make their own product formulation (for use as ingredients for their own independent Animal Feed Supplements, Mulch, or Fertilizer/Soil Amendments products). This comes in one-ton super sacks or containers as raw material ingredients.

SMC-1 Lab Analysis:

Nutrients Analyzed	Analysis	lb/Ton
	Dry Wt. Basis	As Received Basis
Total N, (TCN) %	0.07	1.12
Total Carbon %	6.22	99.64
C:N Ratio	90.1:1	
Nitrate-N, ppm	174.00	0.28
P2O5, %	0.088	1.41
K2O, %	0.270	4.33
Calcium, %	18.850	301.98
Magnesium, %	1.310	20.99
Sulfur %	0.460	7.37
Zinc, ppm	11.0	0.018
Iron, ppm	8449.0	13.535
Manganese, ppm	192.0	0.308
Copper, ppm	5.0	0.008
Boron, ppm	18.0	0.029
Sodium, %	0.560	8.97
P, %	0.039	0.6
K, %	0.224	3.6
pH, as received	8.2	
Salts as EC, mmhos/cm	4.3	
Dry Matter, %	80.10	1602

3x Pellets We also offer our own manufactured **ANIMAL FEED SUPPLEMENT INGREDIENT PELLETS**: Stock # 3x Animal Feed Supplement Ingredient Pellets with the guaranteed analysis showing on the label. Comes in 35 Pound sealed buckets, or one-ton super sacks or large shipping containers in pellet form.





MINERAL TECH PELLETS

Animal Feed Supplement Ingredient

TARGET SPECIES: POULTRY, SWINE, AND RUMINANTS

Net Weight: 35 lb (15.88 KG)

Stock number: 3x

Product Description: Natural feed supplement ingredient containing decomposed Kelp and Marine Deposits from the ancient Lake Bonneville, and natural decomposed Artemia Salina with natural brine, sourced from the Great Salt Lake.

Ingredients: Ancient Marine Deposits (Lake Bonneville), Artemia Salina Biomass and Brine (Great Salt Lake).

Direction for Use:

Mixing Directions (Ration Mix):

Formulate in accordance with professional nutritional recommendations, typically with an inclusion rate up to 10 percent.

Free Choice Feeding: May be offered free-choice (ad libitum) upon consultation with a qualified animal nutritionist.

Guaranteed Analysis

Nutrient	Guaranteed
Calcium (Ca) (Min)	15.00%
Calcium (Ca) (Max)	21.00%
Magnesium (Mg) (Min)	0.90%
Potassium (K) (Min)	0.20%
Sodium (Na) (Min)	0.30%
Sodium (Na) (Max)	0.80%
Sulfur (S) (Min)	0.75%
Iron (Fe) (Min)	4,000 ppm
Manganese (Mn) (Min)	100 ppm
Zinc (Zn) (Min)	10 ppm

Manufactured By:

Mineral Tech Holdings
411 W 7200 South, #103
Midvale, Utah 84047
(801) 995-9503

STATE OF UTAH
DEPARTMENT OF AGRICULTURE AND FOOD
Salt Lake City, Utah 84114-6500
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Company Name Mineral Tech Holdings

Company Address 411 W 7200 S , Suite 103 Rear
Midvale, Salt Lake, Utah,
84047
United States

The Utah Department of Agriculture and Food does hereby grant the registration for the following Feed product(s). The product shall be officially registered through the date of expiration listed below unless canceled for due cause prior to that.

Product Name	Product Registration Number	Date of Approval	Date of Expiration
Mineral Tech Pellets Animal Feed Supplement Ingredient	FEED-PROD-2505	12/01/2025	12/31/2026
Mineral Tech Flakes Animal Feed Supplement Ingredient	FEED-PROD-2505	12/01/2025	12/31/2026

UDAF

Mineral Tech Animal Feed Supplement Pellets

Section 1: Benefits for Poultry (Chickens, Turkeys, Ducks)

1. Toxin Binding & Gut Health:

- **Mycotoxin Mitigation:** This natural mineral structure may be highly effective at binding aflatoxins and other mycotoxins commonly found in your grain-based feeds. This could prevent toxins from being absorbed into the bloodstream, protecting the liver and immune system.
- **Moisture Control (Dry Litter):** The pellets can act as a "gut sponge," absorbing excess moisture in the digestive tract. This leads to drier droppings, significantly reducing wet litter issues, ammonia fumes in the coop, and the risk of footpad dermatitis (bumblefoot).

2. Egg Quality (Layers & Ducks):

- **Stronger Shells:** This natural supplement provides extra bioavailable calcium, grit, and trace minerals necessary for calcification, reducing the rate of cracked or soft-shelled eggs.
- **Extended Laying Persistence:** By buffering the gut pH and improving nutrient absorption, layers may maintain peak production for longer periods, even during heat stress.

3. Growth & Efficiency (Broilers & Turkeys):

- **Improved Feed Conversion Ratio (FCR):** These natural minerals may slow the passage of feed through the gut, allowing more time for enzyme action and nutrient absorption. Birds can possibly gain more weight per pound of feed consumed.
- **Skeletal Integrity:** Essential trace minerals (like manganese and zinc) could support robust bone development, reducing leg problems in fast-growing meat birds like turkeys and Cornish Cross broilers.

Section 2: Benefits for Swine

1. Digestive Stability & Scour Prevention:

- **Anti-Diarrheal Action:** These natural pellets may be particularly beneficial for weaning piglets. It could help stabilize the gut flora and add bulk to the stool, significantly reducing the incidence and severity of post-weaning scours (diarrhea).
- **Ammonia Reduction:** By binding ammonium in the gut, the pellets could reduce the amount of volatile ammonia released in swine manure. This could improve air quality in confinement barns, reducing respiratory stress for both pigs and workers.

2. Swine Performance Metrics:

- **Enhanced Weight Gain:** Trials with mineral clay supplements consistently show improved Average Daily Gain (ADG) due to better protein and energy utilization.
- **Stress Reduction:** The buffering capacity of the minerals may help mitigate the physical stress of transition periods, keeping pigs on feed and growing consistently.

Section 3: Benefits for Ruminants (Dairy Cows, Sheep, Goats)

1. Rumen Function & Buffering:

- **pH Regulation:** This product acts as a natural pH buffer in the rumen, helping to prevent sub-acute ruminal acidosis (SARA), a common issue when feeding high-grain or lush pasture diets. A stable rumen pH is essential for the survival of beneficial fiber-digesting bacteria.
- **Nitrogen Efficiency:** The mineral ingredients can bind ammonia in the rumen and release it slowly. This allows rumen microbes to utilize nitrogen more efficiently to build microbial protein, which is the primary protein source for the cow/sheep.

2. Milk Production & Quality:

- **Somatic Cell Count (SCC) Reduction:** Regular supplementation supports immune function, which is often associated with lower somatic cell counts and higher-quality milk.
- **Bio-available Trace Minerals:** Provides essential "micro-nutrients" often lacking in standard forage, supporting reproductive health (fertility) and hoof integrity.

3. Anti-Caking & Palatability:

- **Feed Stability:** When mixed with TMR (Total Mixed Rations), the pellets help prevent clumping and sorting, ensuring that even sub-dominant animals in the herd receive their required mineral intake.

This product must be used in consultation with your qualified animal nutritionist, agriculturist and soil agronomist. Mineral Tech Animal Feed Supplement Pellets are sourced from the ancient shoreline of Lake Bonneville, offering a comprehensive return on investment. They may improve nutrition, reduce veterinary costs and feed waste in the barn, increase production output (meat, milk, eggs), and may help transform the animals' waste into a premium, higher-value manure soil amendment. This may turn your simple feed supplements into a farm-wide fertility program.

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