Product Number – **301283**
Formula Number – **398N**

RANGELAND® 24-12 HI-FAT CX8™ TUB

Specie: Beef **Type of Feed:** Supplement **Form of Feed:** Tub

General Description: RangeLand® 24-12 Hi-Fat Tub is self-fed, high-fat protein supplement designed to balance nutrient deficiencies and help cattle meet needs as forage availability changes. This tub includes CX8™, a feed supplement designed to optimize reproductive performance in beef cattle.

PURINA® RANGELAND® 24-12 HI-FAT CX8™ TUB

SUPPLEMENT FEED FOR BEEF CATTLE ON PASTURE

GUARANTEED ANALYSIS

Crude Protein, (Min)	**24.00 %**
THIS INCLUDES NOT MORE THAN 13.00% EQUIVALENT CRUDE PROTEIN FROM NON-PROTEIN NITROGEN.	
Crude Fat, (Min)	**10.00 %**
Crude Fiber, (Max)	**2.50 %**
Calcium (Ca), (Min)	**1.75 %**
Calcium (Ca), (Max)	**2.25 %**
Phosphorus (P), (Min)	**1.00 %**
Magnesium (Mg), (Min)	**1.00 %**
Potassium (K), (Min)	**2.00 %**
Manganese (Mn), ppm (Min)	**1600**
Cobalt (Co), ppm (Min)	**38.9**
Copper (Cu), ppm (Min)	**400**
Iodine (I), ppm (Min)	**27.5**
Selenium (Se), ppm (Min)	**5**
Zinc (Zn), ppm (Min)	**1200**
Vitamin A, I.U./lb, (Min)	**80000**
Vitamin D, I.U./lb, (Min)	**10000**
Vitamin E, I.U./lb, (Min)	**50**

INGREDIENTS

Note: ingredients differ by manufacturing plant

Molasses Products, Plant Protein Products, Feed Grade Hydrolyzed Vegetable Fat, Grain Products, Urea, Vegetable Oil, Dicalcium Phosphate, Monocalcium Phosphate, Magnesium Oxide, DL-Methionine Hydroxy Analogue Calcium, Calcium Carbonate, Calcium Hydroxide, Natural Flavor, Saccharin Sodium, Zinc Amino Acid Complex, Manganese Amino Acid Complex, Copper Amino Acid Complex, Cobalt Glucoheptonate, Calcium Stearate, Silicon Dioxide, Manganese Hydroxychloride, Selenium Yeast, Chromium Propionate, Artificial Flavor, Ethylenediamine Dihydroiodide, Vitamin A Supplement, Vitamin E Supplement, Processed Grain By-Products, Sorbitan Monostearate, Zinc Hydroxychloride, Vitamin D3 Supplement, Zinc Sulfate.

CAUTION: Store in a dry, well-ventilated area protected from rodents and insects. Do not feed moldy or insect-infested feed to animals as it may cause illness, performance loss or death. Do not feed to sheep or allow sheep access to these products because of the high level of supplemental copper.

DIRECTIONS:

Feed one tub per 20-25 head of cattle and at least 2 tubs per pasture to ensure adequate intake by younger, timid animals. Place the tubs within 100 feet of where animals congregate (loafing, grazing, feeding and watering areas). Feed tubs continuously along with plentiful sources of forage and fresh, clean water. Cattle will consume approximately 1/2 to 1 pound of this supplement per head daily. If additional mineral and vitamin fortification is needed, provide a nutritionally balanced mineral/vitamin supplement containing salt. This product does not contain added salt; therefore, supplemental salt should be offered at all times.

MANAGEMENT TOOL NOTE: Placement of tubs can influence grazing distribution in large pasture situations. Place tubs in areas of under-utilization in order to entice cattle to specific locations within a pasture.

INTRODUCTORY PERIOD: During the first week of use, place the tubs within 100 feet of the loafing and/or wearing areas. As cattle become accustomed to the presence of the tubs, some repositioning may be necessary. Move the tubs closer to increase consumption, further away to decrease consumption. DO NOT PROVIDE STARVED ANIMALS FREE ACCESS TO THIS SUPPLEMENT.

IMPORTANT: Consumption rate depends on location of the tubs with respect to loafing, grazing, and/or watering areas. Also consider animal condition, forage quality and quantity and seasonal weather conditions. If over-consumption occurs for more than two weeks despite repositioning, remove tubs and evaluate the overall feeding program.

Available Options:

Product No.	Package	Size	Feeding Rate
301283	Plastic Tub	225#	0.5 to 1.0 lbs./hd./d

Product Features:	**Product Benefits:**
CX8™	Feed supplement designed to optimize reproductive performance.
Protein and energy supplement	Balances deficiencies in fair to poor-quality pasture or hay to improve forage utilization and optimize animal performance.
Differentiated fat source	Manufactured with proprietary Macro Encapsulation Technology™ - the high-energy nugget delivers additional fat to help maintain body condition and support reproduction. Concentrated source of rumen-protected fats, which pass through the rumen to be absorbed as energy in small intestine.
Consistent intake and nutrient delivery at 0.5-1.0 pound per head daily	Low moisture cooked molasses product technology.
Positive associative effects when fed with low to medium quality forages	Molasses provides readily available energy to stimulate rumen fermentation that helps the animal extract more energy from the forage, as demonstrated by research showing increased forage intake and utilization.
Use of non-animal-based protein and fat sources	Formulated without animal fat and/or animal protein products for natural programs.
Free-choice supplement delivery system	Greatly reduce labor/time requirements when supplementing the beef herd. Equipment savings, labor savings, low to no waste. Convenient supplement delivery system optimal for beef producers experiencing time and labor shortages.
Optimum level of trace minerals	Prevents deficiencies to support fertility, immune function, and overall health.
Convenience and safety	RangeLand® Protein Tubs conveniently come in their own, non-returnable, recyclable plastic tub.

CX8™ Purina Beef Cattle Animal Nutrition Research Study, Gray Summit, MO

Background information and study design:

- AI conception rate evaluated at Purina Animal Nutrition Center.
- Synchronized mature herd, black baldies, 2 consecutive years, 164 total head, BCS ≈ 6.5.
- Purina CX8 Pack was fed 30 days before breeding and 90 days after.
- Diets were not designed to be nutrient-deficient, and animals were fed to meet requirements.

First Service Conception Rates from Artificial Insemination

	Control		Purina CX8 Pack		
Group	Year 1	Year 2	Year 1	Year 2	% Unit Change
Cows*	70.7%	55.0%	73.1%	65.9%	+6.7

*Conception determined by palpation at weaning approximately 150 days post AI.