QLF Ignite Protein Supplements are designed to supplement a wide range of forages. The Ignite Protein Supplement selection offers highly palatable supplements that provide enhanced nutrition and improved forage utilization. QLF supplements are convenient and easy-to-use to ensure your livestock are getting what they need, when they need it.

NUTRITION:

Many forages fed to livestock do not supply adequate protein to meet the animals' nutrient requirements. Inadequate protein has a significant impact on the fiber digesting microbes ability to utilize forage fiber. QLF Ignite protein supplements can complement your available forages by providing this essential, rumen degradable protein by insuring adequate ammonia nitrogen is available to meet the needs of rumen microbes.

Research conducted at Kansas State University (Table 1) demonstrates that heifers fed a low quality forage (5.2% CP and 73% NDF; DM basis) ad libitum respond to supplementation with low moisture blocks (LMB). LMB supplementation improved forage intake and increased dry matter digestibility ($P < 0.05$). Adequate protein is essential to cattle fed low quality forages to ensure their ability to get the most out of available forages.

Table 1

Item, DM	No Supplement	27.5% CP LMB
Forage Intake, lbs/d	12.98	14.59
Digestibility, %	38.1[a]	43.5[b]
Digestible Intake, lbs/d	4.95	6.87

[a,b] Within a row, means without a common superscript letter differ ($P < 0.05$) *Nutsch et al., 2004*

IMPROVE PASTURE UTILIZATION:

QLF Ignite protein supplements help livestock utilize and move to unfavorable areas within a pasture. Ignite supplements can be placed in selected underused areas of a pasture, specifically drawing cattle to these potential grazing locations. As these supplements are strategically moved during a grazing season, cattle will be forced to shift their routine travel patterns. This reduces the likelihood of overgrazing or developing bare spots, which may be prone to erosion or weed infestation.

CONSUMPTION:

Placing one 200 pound block for every 15-20 head of livestock is important to reduce over-consumption. Adequate salt and fresh, clean water should be provided at all times. Consumption may vary depending on size of animals, health status, weather conditions, and quality of available forages.

Protein Supplement Nutrient Summary

Ignite Supplements are available in 60 lb, 125 lb, 200 lb and 250 lb containers

QLF Ignite Protein Supplements	Protein %	NPN %	Fat %	Calcium %	Phosphorus %	Magnesium %	Copper, PPM	Manganese, PPM	Selenium, PPM	Zinc, PPM	Vitamin A IU/lb	Vitamin D IU/lb	Vitamin E IU/lb	Additives
Supplement Selection for Moderate to High Quality Forages														
Ignite Omega 14 AN	14	0	10	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	Zinpro Availa®4
Ignite 18 AN MS	18	0	5	2	1	0.5	0	1,100	5	1,500	75,000	7,500	100	
Ignite 20 AN MS	20	0	5	2	1	0.5	0	1,100	5	1,500	75,000	7,500	100	
Ignite 20 AN 2P	20	0	5	2	2	0.5	425	1,100	5	1,500	75,000	7,500	100	
Ignite IGR 20 AN 2P	20	0	5	2	2	0.5	425	1,100	5	1,500	75,000	7,500	100	Altosid-IGR
Ignite 20 AN 2P AV4	20	0	5	2	2	0.5	425	1,100	5	1,500	75,000	7,500	100	Zinpro Availa®4
Ignite Select 20 AN	20	0	5	1.5	0.8	0.25	425	1,000	5	1,500	50,000	5,000	50	
Ignite VP 20 AN	20	0	4	1	0.75	0.5	425	1,100	5	1,500	75,000	7,500	100	
Ignite VP 20 AN MAX	20	0	4	1	0.75	0.5	425	1,100	5	1,500	75,000	7,500	100	Celmanax
Ignite VP 20 AN AV4 MAX	20	0	5	1	0.75	0.5	425	1,100	5	1,500	75,000	7,500	100	Zinpro Availa®4, Celmanax
Ignite 20-7	20	7	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	
Ignite IGR 20-7	20	7	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	Altosid-IGR
Ignite 20-7 AV4	20	7	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	Zinpro Availa®4
Ignite 20-7 MAX	20	7	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	Celmanax
Ignite 20-7 HI Mag	20	7	5	2	1	2.5	425	1,100	5	1,500	75,000	7,500	100	
Ignite 20-7 Omega	20	7	10	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	Zinpro Availa®4
Supplement Selection for Moderate to Low Quality Forages														
Ignite 25 AN	25	0	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	
Ignite Select 25 AN	25	0	5	1.5	0.8	0.25	425	1,000	5	1,500	50,000	5,000	50	
Ignite 25 AN MS	25	0	5	2	1	0.5	0	1,100	5	1,500	75,000	7,500	100	
Ignite Select 25 AN MS	25	0	5	1.5	0.8	0.25	0	1,000	5	1,500	50,000	5,000	50	
Ignite IGR 25 AN	25	0	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	Altosid-IGR
Ignite 28	28	16	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	
Ignite 28 AV4	28	16	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	Zinpro Availa®4
Ignite 28 MAX	28	16	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	Celmanax
Ignite 28 Omega	28	16	10	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	Zinpro Availa®4
Ignite 30	30	17	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	
Ignite 30 2P	30	17	5	2	2	0.5	425	1,100	5	1,500	75,000	7,500	100	
Ignite 30 2P MAX	30	17	5	2	2	0.5	425	1,100	5	1,500	75,000	7,500	100	Celmanax
Ignite 40	40	23	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	
Ignite 40 AV4	40	23	5	2	1	0.5	425	1,100	5	1,500	75,000	7,500	100	Zinpro Availa®4

(AN) All Natural Protein (No Added NPN)
(MS) Multi-Specie (No Copper, Safe for Sheep)
(2P) 2% Phosphorus
(VP) Vegetable Protein Sources (No Added NPN)

ADDITIVE	DESCRIPTION	IGNITE PROTEIN PRODUCTS
AVAILA ®4	Zinpro Performance Minerals provide highly available sources of zinc, copper, manganese, and cobalt, all of which are important for optimizing growth and health.	• Ignite VP 20 AN AV4 • Ignite 20 AN 2P AV4 • Ignite 20-7 AV4 • Ignite 28 AV4 • Ignite Omega 14 AN • Ignite Omega 20-7 • Ignite Omega 28 • Ignite 40 AV4
ALTOSID-IGR®	Altosid IGR controls horn flies by interrupting their life cycle. • Works in the manure of treated animals • Prevents horn flies from maturing	• Ignite IGR 20 AN 2P • Ignite IGR 20-7 • Ignite IGR 25 AN
CELMANAX®	Celmanax® combines the power of these effective components • Yeast Culture • Mos and Mannose • Beta-glucan • Galactosamine	• Ignite VP 20 AN AV4 MAX • Ignite 20-7 MAX • Ignite 28 MAX

Low Moisture Block Management Tips - While blocks can free the producer from daily supplement delivery tasks, they do not eliminate the need for feeding management. Successful use hinges on proper placement, maintenance, and monitoring.

- Provide adequate available forages and energy at all times. Do not feed free choice to empty, energy starved cattle or other hungry livestock.
- Provide unlimited fresh, clean water. Once livestock are familiar with block, place block away from water supply and away from where animals congregate.
- In areas with extreme heat, place blocks in the shade.
- Intake of these supplements will vary, depending on the quality of forages, pasture conditions and/or nutritional need.

Quality Liquid Feeds, Inc. (QLF) has been a pioneer and leader in the liquid feed supplement arena since 1977, offering customers consistent, scientifically-formulated feeds for a wide range of animals diets, and environment. Now QLF brings their nutrition expertise to Low Moisture Blocks (LMB).

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