

Typical Product Specifications & Nutrient Value of Processed Alfalfa

Nutrients & Minerals

Nutrients	Dehydrated Alfalfa Pellets	Suncured Alfalfa Pellets	Alfalfa Cubes	Timothy - Alfalfa Cubes
Protein (%)	17	15	15	12
Total Digestible Nutrients (%)	60	56	56	54
ADF (%)	30	35	33	35
NDF (%)	40	45	41	47
Digestible Energy (Mcal/kg)	2.16	2.08	2.10	2.07
Minerals				
Calcium (%)	1.65	1.40	1.60	1.40
Phosphorus (%)	0.25	0.20	0.25	0.20
Potassium (%)	1.90	1.80	1.80	1.50
Copper (mg/kg)	7.00	6.00	6.00	5.00
Manganese (mg/kg)	30.00	25.00	25.00	22.00
Zinc (mg/kg)	28.00	25.00	22.00	20.00
Magnesium (%)	0.25	0.23	0.22	0.20

Vitamins & Amino Acids

In addition, the contribution of Alfalfa in other nutrients can be substantial as a vitamin and amino acid source as shown in Dehy Alfalfa.

Vitamin (mg/kg)

Carotene	165
Xanthophyll	270
Vitamin E	113
Niacin	40
Choline	1525

Amino Acids (% of Protein)

Lysine	6.1
Methionine & Cystine	3.0
Tryptophan	1.8
Threonine	3.8

ALFALFA Products for Sheep

Processed alfalfa products are used in sheep rations to improve palatability, increase voluntary intake and provide an excellent source of protein, beta-carotene and calcium. Alfalfa cubes may be used as the sole roughage source for all classes of sheep. For healthy rumen function and to avoid rumen damage from grain overload or acidosis, alfalfa cube rations for adult ewes and rams should be between 1.5 to 2.5 lbs per day plus minerals.

ALFALFA Pellets in Ewe Rations

Ewes seldom require protein levels above 9% for flushing, gestation, or even milk production for single lambs. However, hay containing less than 9% protein may be supplemented with alfalfa pellets daily, during the production periods listed below.

Flushing: 0.25 kg dehy pellets, 0.25 kg of oats or barley for 30 days before breeding.

Breeding: Continue the flushing feeding throughout breeding.

Pre-lambing: The pre-lambing energy levels will depend on the body condition of the ewes 30 days before lambing.

• **Thin ewes** should receive 0.25 kg alfalfa pellets and 0.5 kg of oats or barley.

• **Medium condition ewes** should receive 0.25 kg alfalfa pellets and 0.25 kg of oats or barley daily.

• **Fat ewes** should receive about 0.25 kg of alfalfa pellets.

Alfalfa pellets and grain complement a basic diet of good quality grass legume hay, which should be fed to appetite during pre-lambing season.

• **Milking ewes with twin or triplet lambs** require very high levels of energy since ewes will attempt to produce milk to satisfy their lambs demand. Such ewes should receive 0.5 kg alfalfa pellets and 1.0 kg of barley or 1.1 kg of oats daily, along with all the top quality alfalfa hay they want.

• **Milking ewes with singles** should receive 0.25 kg of alfalfa pellets and 0.5 kg of oats or barley daily, along with all the good hay they can eat.

ALFALFA Pellets in Ram Rations:

Rams require preparation for breeding about 60 days in advance. About 1.0 kg of alfalfa pellets daily during this pre-breeding period, along with top quality hay will prevent rams from becoming too fat and will bring them into top condition for the breeding season. During breeding, the rams will have access to the alfalfa-grain mixture being fed to the ewes.

For information on Creep Rations and Finishing Rations for Early Weaned Lambs please contact us directly.

ALL the diets in this brochure are recommended portions only and individual results may vary from animal to animal.

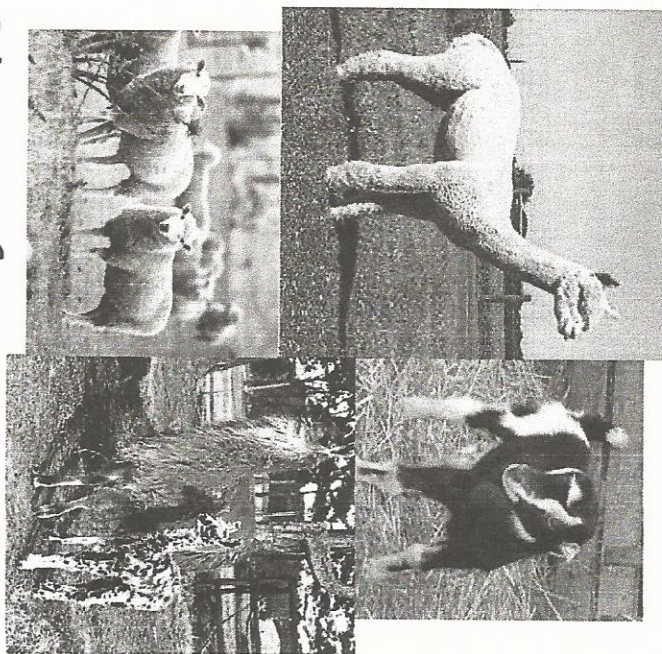
For More Information Contact

1-877-253-2832

www.alfatec.ca info@alfatec.ca

ALFALFA Products for

Llamas, Alpacas, Goats & Sheep



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ALFA TEC Products for Goats

Alfalfa or Timothy-Alfalfa cubes may replace up to 70% of the forage source

Dehydrated alfalfa pellets can be included to 40% of the concentrate or cereal/protein supplement, or used up to levels of 20% of the total feed fed to supplement forage quality

Goats have very high beta-carotene requirements and should be provided with a high quality forage source. Alfalfa products are an excellent source of both beta-carotene and fibre.

Sample Diets Using ALFA TEC Cubes and Pellets

Mature dry does, early pregnancy

1.0 kg grass hay, 0.5 kg oat straw, 0.3 kg dehy alfalfa pellets; 1.0 kg timothy-alfalfa cubes, 0.7 kg grass hay

Mature dry does, late pregnancy

0.5 kg oat straw, 0.9 kg oats, 0.9 kg dehy alfalfa pellets; 1.0 kg timothy-alfalfa cubes, 0.9 dehy alfalfa pellets ~

Mature nursing does

2.2 kg grass hay, 1.2 kg barley, 0.3 kg dehy alfalfa pellets; 2.0 kg grass hay, 1.4 kg barley, 0.4 kg dehy alfalfa pellets; 1.7 kg timothy-alfalfa cubes, 1.2 kg barley, 0.4 kg dehy alfalfa Pellets

Creep rations for kids (based on batches of 100kg)

For kids consuming under 25 grams per day

80 kg barley, 5 kg dehy alfalfa pellets, 14 kg soybean meal, 0.5 kg 18:18 mineral, 0.5 kg salt

For kids consuming over 25 grams per day

40 kg oats, 59 kg dehy alfalfa pellets, 0.5 kg 18:18 mineral, 0.5 kg salt

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For further information, please contact us directly.

ALFA TEC Products for Alpacas

Proper nutrition is essential to proper development of all body parts. Alpacas are not quick to reproduce so they need good nutrition and management to increase fertility rates and live births. By maintaining a high level of nutrition you can assure your animals have viable birth weights and good growth rates. Proper nutrition also increases disease resistance & healthy skin which in turn means a healthy hair coat. This is especially important for those breeding alpacas to sell the raw fibre.

Cubes ...

Alpacas require 1.5% of the body weight in **ALFA TEC** Hay Cubes per day. A mature adult alpaca will weigh between 110 and 150 lbs. Depending on the weight of the alpaca you will be feeding between 1.65 to 2.25 lbs per day. Since alpacas can easily become overweight you should be careful not to overfeed.

Pellets ...

If you choose to feed hay instead of cubes, you can supplement your alpacas diet with alfalfa pellets. An alpaca requires up to 16% crude protein in their total diet so alfalfa pellets fed with a grass hay can increase the overall protein in the diet and ensure proper nutrition. See the chart below for specific feeding rates.

Alpaca diet for **ALFA TEC** Pellets & Hay

Diet	110 lb Alpaca	150 lb Alpaca
Total requirement	2.2 lb	3.0 lb
Hay @ 70% of ration	1.55 lb	2.10 lb
Pellets @ 30 % of ration	0.65 lb	0.90 lb
Hay @ 80% of ration	1.75 lb	2.40 lb
Pellets @ 20% of ration	0.45 lb	0.60 lb

**** All diets are formulated for mature adult animals at maintenance. Changes need to be made for animals that require above maintenance nutrition.**

ALFA TEC Products for Llamas

A good nutrition program is very important to maintaining a healthy llama or herd of llamas. Nutrition has a direct effect on their breeding, birthing, health, milk production, conformation and wool quality. Although llamas are not a ruminant species they have the ability to ruminate their feed to efficiently consume nutrients from even a lower quality feed. Despite this there are several times a year when llamas require a higher plane of nutrition. When they are in late gestation, early lactation and in extremely cold weather they require up to 16% crude protein. At these times especially, feeding alfalfa products can help to maintain the health and growth of your llamas.

Cubes.....

Llamas require 1.5% of their body weight in **ALFA TEC** Hay Cubes per day. A mature adult llama will weigh between 200 and 400 lbs. That means they will eat between 4 and 8 lbs of feed per day. Llamas have a low requirement for protein so they do best on Timothy-Alfalfa Cubes.

Pellets ...

If you choose to feed hay instead of cubes, you can supplement your llamas diet with alfalfa pellets. A llama requires up to 12% crude protein in their total diet so alfalfa pellets fed with a grass hay can increase the overall protein in a hay diet and ensure proper nutrition. See the chart below for specific feeding rates.

Llama diet for **ALFA TEC** Pellets & Hay

Diet	200 lb Llama	400 lb Llama
Total requirement	4.0 lb	8.0 lb
Hay @ 80% of ration	3.20 lb	6.40 lb
Pellets @ 20 % of ration	0.80 lb	1.60 lb
Hay @ 90% of ration	3.60 lb	7.2 lb
Pellets @ 10% of ration	0.40 lb	0.80 lb

**** All diets are formulated for mature adult animals at maintenance. Changes need to be made for animals that require above maintenance nutrition.**