



ENERGY x ENERGY

HIGH ENERGY GRASS & HIGH ENERGY HYBRID ALFALFA

BARENBRUG

HIGH ENERGY DAIRY MIXTURES



Alfalfa is the mainstay forage for confinement dairies across the United States. It is rich in protein and is sought after for its high forage yields. However, it lacks the rumen correcting digestible fiber of high-quality grass to help alleviate acidosis. The Queen of forages requires the King of forages to reign supreme!

Barenbrug, the leading innovator of forage grass technology has perfected the complex synergistic combination of alfalfa with grass. Barenbrug has identified the cultivars and proportions that provide the maximum yield when planted together but also improve the ENERGY value and nutritional properties of the silage. Barenbrug has partnered with Dairyland Seeds, the exclusive developer of Hybrid alfalfa technology (msSunstra), in bringing this unique product to the market. Choose E2 for more energy from production fields!

- ▶ E2 contains grasses that grow in the same rhythm as alfalfa.
- ▶ E2 contains grasses and alfalfa that have very high energy values, ideal for high producing dairy cows.
- ▶ E2 grasses and alfalfa are formulated for sowing in a single pass in one drill box.
- ▶ E2 increases yield and stand longevity.

PRODUCTS

E2-640

- A mixture of premium tall fescue and hybrid alfalfa
- Soft leaved tall fescue for increased digestibility
- Ideal for high quality dairy silage
- Produces consistent silage quality from each cut

E2-631

- A mixture of premium tall fescue, orchard grass and hybrid alfalfa
- Latest heading orchard grass variety is ideal companion to alfalfa
- Use for high quality hay production
- Increased tonnage per acre



Great in Grass® for more than 100 years
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HIGH ENERGY GRASS & HIGH ENERGY HYBRID ALFALFA

The practice of growing grasses with alfalfa is not new but it has always had challenges such as: Which grass species to grow with a particular dormancy alfalfa; which grass variety to use for feeding high producing dairy cows; and how to sow the alfalfa and grass together. After many years of research in collaboration with university scientists and parallel grass breeding efforts Barenbrug has solved the energy puzzle.

► **E2 contains grasses that grow in the same rhythm as alfalfa.**

- Our late heading soft leaf tall fescue varieties (STF-43) are ideal for planting with alfalfa. They mature to boot stage (ideal time to harvest grass) at the same time alfalfa reaches mid-bloom.
- Unlike traditional orchard grass, the grasses in E2 are non-clumping, fine leafed, and do not crowd out the alfalfa.
- Unlike timothy, they can withstand low cutting heights and regrow at the same rate as alfalfa after cutting. Thus maintaining a uniform proportion of grass and alfalfa in different cuttings.

► **E2 contains grasses and alfalfa that have very high energy values, ideal for high producing dairy cows.**

- Genetically improved grasses with lower NDF but higher NDFd than traditional grasses. Thus balanced fiber profile of the silage which is balanced for energy (from grass) and protein (from alfalfa).
- The NDF of the msSunstra hybrid alfalfa also has better digestibility than traditional alfalfa leading to greater portion of rumen digestible energy from fiber which improves rumen function.
- The grasses in E2 are very drought tolerant and deep rooted; and thus match the agronomic characteristics of alfalfa. These stress tolerant grasses have less variability in the forage quality (NDF and NDFd) between different cuttings. Thus dairy farmers can put different cuttings in the same silage bunk.

► **E2 alfalfa and grasses are formulated for sowing in a single pass in one drill box.**

- Alfalfa and grass seed in E2 are normalized in size by a proprietary seed coating called Yellow Jacket. This provides for even flow of both species through the drill and no separation.
- Yellow Jacket improves establishment by stabilizing the moisture regime around the seed under limited soil moisture conditions.
- Yellow Jacket also improves seed germination in saline/alkaline soils.

► **E2 increases yield and stand longevity.**

- Multiple research trials have shown that E2 increases the dry matter yield per acre by as much 1 ton per acre compared to alfalfa planted alone in a monostand.
- E2 has better tolerance to potato leaf hopper than alfalfa alone.
- E2 provides higher tonnage over long term in poorly drained soils compared to alfalfa alone.
- Stable yields even in low pH soils.
- Better winter hardiness / overwintering compared to alfalfa alone.
- Better drying in windrows to decrease the time from swathing to baling or greenchopping for silage thus improving over all forage quality.

Why msSunstra?



Hybrid Alfalfa Technology

FEATURES

- High forage yield potential
- Hybrid plant uniformity
- Fine stems
- Drought tolerance

BENEFITS

- More tons of forage
- Maintain consistent forage quality
- Faster dry down
- Less wasted forage
- Productive during dry years



Dairyland Seeds is the exclusive developer of msSunstra

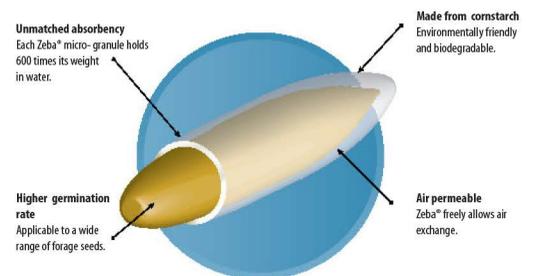
SEED COATING IMPROVES SEED PERFORMANCE.



YELLOW JACKET®
ENHANCED SEED COATING

Yellow Jacket® is Barenbrug's proprietary seed coating. Yellow Jacket utilizes Zeba® superabsorbent technology to produce a coating that can hold up to 600 times

its own weight in water. Research trials at the University of New Mexico proved that seed coated with Yellow Jacket established faster and required less water. Yellow Jacket simultaneously helps seed thrive while conserving water.



*Zeba is a registered trademark of, and used under license from, Absorbent Technologies, Inc.

Fowler Seed Marketing

(888) 249-SEED

Rock Creek, Ohio

FowlerSeed.com



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