

What others say about Starter P on Wheat

"A response to a readily available supply of phosphorus applied as a starter fertilizer in soils containing high phosphorus levels is often obtained during the cool portion of the growing season, as with late fall or early spring seedings, when the soil volume explored by roots is small."

Washington State University

"Starter P and K (applied at time of seeding)-shown to increase yield in Montana even in high soil test P and K soils due to slow diffusion at cool temperatures."

Montana State University

"Drill-banding (phosphorus) is usually the most efficient application method, allowing placement with, below, or to the side of the seed."

University of Idaho

"A number of studies in Nebraska and other states have shown that P applied directly with the wheat seed is much superior to broadcasting methods of P application."

University of Nebraska

"Band applications of (P on wheat) with the seed at planting are recognized as being more efficient generally than broadcast treatments, particularly when small amounts are to be applied on acid soils low in available phosphorus."

Kansas State University

"Band application of starter fertilizers with or near the seed is the most efficient placement method for P on wheat."

Colorado State University

"Applying fertilizer with the seed at planting is one successful soil management practice that has long been recognized as a means to improve crop yields. Grain drills with fertilizer attachments eventually enabled the farmer to apply a small amount of fertilizer with the seed and plant in one operation."

North Dakota State University

"The lack of P and K movement in the soil means that when low rates of these two nutrients are applied they be placed as close to the seed as can be achieved."

Saskatchewan Soil Conservation Association

GoldStart® 6-24-6 Guaranteed Analysis

Total Nitrogen (N)..... 6.0%
 5.3% Ammoniacal Nitrogen
 0.7% Urea Nitrogen
 Available Phosphate (P₂O₅) 24.0%
 Soluble Potash (K₂O) 6.0%

Derived from: anhydrous ammonia, urea, phosphoric acid, and potassium hydroxide

Manufactured only by

Nutra-Flo® Company

Sioux City, Iowa 51106

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10-34-0 User? THEN READ THIS!

High quality **GoldStart 6-24-6** is a crystal clear, low-salt plant food high in orthophosphates.

- Increases grain yields and grazing capacity
- High orthophosphate content
- High solubility
- Non corrosive
- Easy to handle
- Excellent storability
- Superior phosphate management tool that can be used in-furrow or as a foliar



High quality

- GoldStart 6-24-6 is 100% plant-available, near neutral pH, low salt fertilizer designed for maximum safety.

Lower cost, higher yields

- Young seedlings emerge stronger, plants move quickly through the vegetative stage, and plants mature faster producing the highest quality crops with top yields.

Low rates per acre

- When applied in-furrow during planting, the grower can achieve greater fertilizer efficiency with lower rates.

Solubility

- GoldStart 6-24-6 is 100% water soluble. This allows more nutrients to enter the plant at a faster rate.

High Orthophosphate Content

- GoldStart 6-24-6 has a high orthophosphate content – phosphorus and other important nutrients are immediately available to the plant.
- Because 10-34-0 has a high polyphosphate content, plant roots cannot absorb phosphorus until the polyphosphates are converted to the orthophosphate form.

Potassium

- The potassium in GoldStart 6-24-6 is derived from potassium hydroxide. Potassium is needed for greater straw and root strength, disease suppression and winter hardiness. (10-34-0 does not contain potassium)

Salt Index

- GoldStart 6-24-6 has a low salt index, which allows for safer placement with the seed. Plants have an immediate source of nitrogen, phosphate and potash for easy uptake during germination.
- Because 10-34-0 has a higher salt index of 20, versus 11.5 for GoldStart 6-24-6, there is greater potential for seedling damage when 10-34-0 is seed placed.

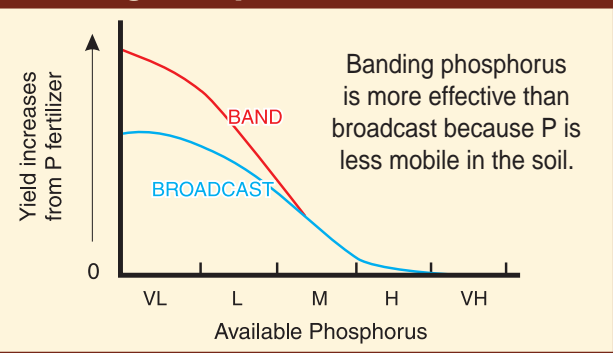
Storability/Handling

- GoldStart 6-24-6 has a longer shelf life than 10-34-0 and is not affected as much by extreme temperatures.
- GoldStart 6-24-6 has a low viscosity of 40 cps, versus 48 cps for 10-34-0, so it flows more freely – especially in cooler temperatures.

Application Rate

- GoldStart 6-24-6 is normally applied at 4 to 8 gallons per acre into the seed furrow.

Banding Phosphorus Increases Yields



The advantages of banding are greatest when P levels are very low (VL) to low (L).
From Randall and Hoefl, 1988, Montana State University.

Approximate Viscosity (in centipoise) of Common Liquids

Water	1 cps
Anti-Freeze	15 cps
GoldStart 6-24-6	40 cps
10-34-0	48 cps
SAE 10 Motor Oil	50 cps
Corn Oil	65 cps
Maple Syrup	150 cps