# THIO 25-17™: CORN

## Thio 25-17™ Corn: Unlock Hidden Yield for Corn

Thio 25-17™ can unlock the hidden yield in your crop production practices. Thio 25-17™ is plant safe and can be applied through a variety of applications - including liquid starters, side dress, foliar, or fertigation - allowing you to provide vital nutrients when they are needed the most. Thio 25-17™ is an easy to handle liquid and when blended with 10-34-0 or UAN freeze points of those solutions are reduced, and overall product stability is enhanced. Field trials have shown compelling ROIs. Can you afford not to try potassium thiosulfate?

### Key Benefits

- Safe and easy to handle
- Compatible with many liquid fertilizers, foliar fertilizers, and crop protection products
- Improves plant growth
- Increases nitrogen fixation
- Helps overcome disease and insect stress
- Improves drought resistance

### Guaranteed Analysis

(%WT.):
Soluble Potash ($K_2O$).....
25
Sulfur (S).....17
Derived from potassium thiosulfate

### Typical Properties

**Appearance**: clear, colorless, liquid
**Odor**: none
**pH (as is)**: 7.5-8.0
**Specific gravity**: 1.46
**Weight**: 12.2 lbs./gallon
**Salt Out**: < 0 °F

### Plant Health Benefits

**Potassium** is credited for general plant health and is essential to overall plant development. It plays an important role in photosynthesis, transforming sugars, and producing starch (yield). Potassium also helps withstand drought stress by regulating transpiration. Water escapes through the opening and closing of the stomata on the bottom side of the leaf surface of which potassium directly regulates.

**Sulfur** is required for the synthesis of chlorophyll and protein development of two essential amino acids - cysteine and methionine. Sulfur also has been shown to improve the eciency of nitrogen!

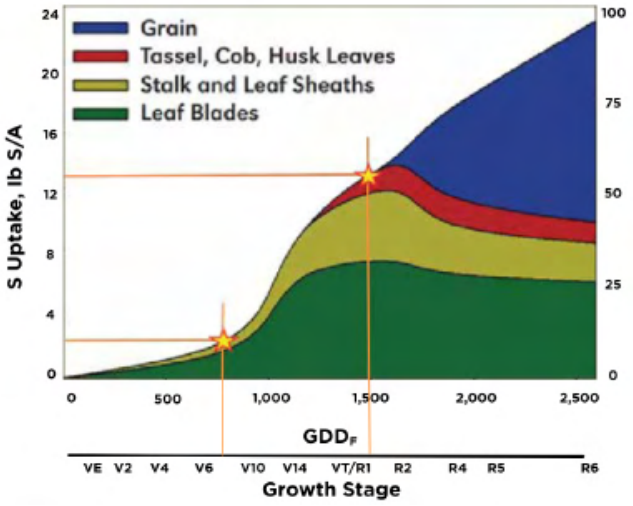
Sulfur is mobile in the soil and relatively immobile within the plant therefore compounding the need for sulfur fertilizer additions throughout the plant's life cycle.

### Proven Results

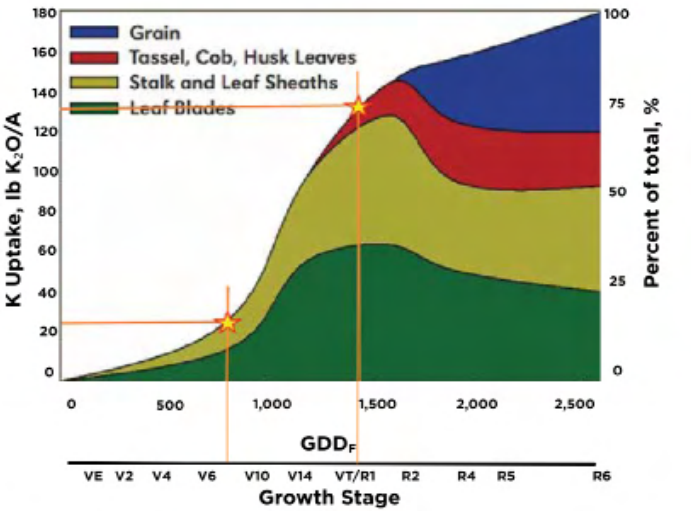
Kansas State University research showed that the addition of 5 lbs/acre of K20 as potassium thiosulfate **(Thio 25-17™)** in combination with 10-34-0 as a starter fertilizer increased corn yield by 12 bu/acre over equivalent amounts of N and P without potassium.



## Sulfur Uptake and Distribution Within the Corn Plant




## Potassium Uptake and Distribution Within the Corn Plant




Season long sulfur availability is necessary for maximizing yields, but it's critical to have S availability late into the season as **50% of the sulfur is taken up after the onset of grain fill**. Late season sulfur availability can be challenging due to its mobility within the soil. A combination of application methods is often necessary to obtain the desired response.



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FOR MORE INFORMATION:
HYDRITE
17385 GOLF PARKWAY
BROOKFIELD, WI 53045

WWW.HYDRITE.COM
262-792-1450
INFO@HYDRITE.COM

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