



**ACTIVE**<sup>TM</sup>  
AgriScience  
activeagriscience.com

TECHNOLOGY  
BEYOND  
the POINT  
of NUTRITION<sup>TM</sup>

Active AgriScience Inc. supports the farming community by providing innovative, effective, and economical products that increase yields. A leader in plant nutrient and bioactive compound research and technology, Active AgriScience uses rigorous scientific methods to develop and enhance products to improve farm production and profits.

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NUTRITION  
TO IMPROVE  
**GRAIN  
SIZE AND  
WEIGHT**



Grain yield is determined by a combination of crop genetics, duration of the grain filling stage and nutrition during that stage. Active GrainFILL<sup>TM</sup> contains sulphur plus 12 amino acids and 3 vitamins that optimizes grain size and weight.



**GUARANTEED MINIMUM ANALYSIS:**

Total Nitrogen (N).....	10%
Soluble Potash (K <sub>2</sub> O).....	14%
Sulfur (S).....	6.5%
Iron (Fe).....	0.005%

**EXTENDED DURATION OF GRAIN FILLING**

Active GrainFILL<sup>TM</sup> provides potassium in an easily absorbed form. Potassium is a key element in remobilization of food reserves to developing grains during the grain filling stage. Potassium helps extend the grain filling duration.

**LARGER AND HEAVIER GRAINS**

Both Nitrogen and Potassium help build new tissues after pollination and fertilization. Nitrogen plays a role in achieving high grain yield with adequate protein content. Nitrogen remobilization to grains after flowering naturally occurs in the form of amino acids. The 16 free amino acids in Active GrainFILL<sup>TM</sup> help enhance this process.

**GROWTH MAINTENANCE UNDER STRESS CONDITIONS**

Amino acids help plants during stress situations by acting as osmolytes (cell pressure regulators), regulating ion transport, modulating stomatal opening, and detoxifying heavy metals. Plants supplied with Active GrainFILL<sup>TM</sup> contains many amino acids, including proline, to help the plant mitigate abiotic stress.

**INCREASED YIELD**

Better nutrition and extended grain filling helps maintain yields during stress conditions or improve yields during normal growing conditions. At least 30% of harvested grain nitrogen is linked to post anthesis (post flowering) nitrogen supply. It is clear that an adequate supply of nitrogen during grain filling is critical for good yields. A simple way of providing nitrogen during post anthesis is to tank mix Active GrainFILL<sup>TM</sup> with other compatible agrochemicals sprayed during this period.

**DIRECTIONS FOR USE:**

**Wheat, barley, oats:** apply during the grain filling stage (BBCH 71-75 stage / milk stage) as a foliar spray at 1 L / acre with a minimum of 20 L of water per / acre for ground applications and 12 L of water per acre for aerial applications.

Spray early morning or late afternoon when the sun is lower in the sky. Do not apply when air temperatures are above 27°C. Avoid spraying on windy days. Add tank-mix partners in the following order: water, fungicide, Active GrainFILL. Keep agitator running while mixing.

**COMPATIBILITY:** This product is compatible with most fertilizers and pesticides. If compatibility is uncertain, conduct a jar test prior to use.