



**ACTIVE**  
AgriScience  
activeagriscience.com

TECHNOLOGY  
BEYOND  
the POINT  
of NUTRITION™

Active AgriScience Inc. supports the farming community by providing innovative, effective and economical products. A leader in plant nutrient and bioactive compound research and technology, Active AgriScience uses rigorous scientific methods to develop full cycle fertiliser and nitrogen management solutions to help enhance crop potential while being mindful of environmental impacts.



**ACTIVE**  
AgriScience  
AUSTRALIA

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Product manufactured in Australia

MAY 27 2025



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™ contains nitrogen, potassium sulfur, 12 amino acids and 3 vitamins that optimises grain size and weight.



POWERED BY



#### ANALYSIS (W/V%):

Total Nitrogen (N)	13%
Potassium (K)	15.1%
Sulfur (S)	8.5%
Cytokinin – Kinetin	0.07%
Iron (Fe)(actual)	0.007%
Amino acids	0.04%
Ascorbic acid	0.004%
Vitamin B complex	0.04%

#### ANALYSIS (W/W%):

Total Nitrogen (N)	10%
Soluble Potash (K <sub>2</sub> O)	14%
Sulfur (S)	6.5%
Cytokinin – Kinetin	0.05%
Iron (Fe)(actual)	0.005%
Amino acids	0.03%
Ascorbic acid	0.003%
Vitamin B complex	0.03%

Net Weight: 13.0 kg/10L

#### ENHANCED GRAIN FILLING DURATION

Active GrainFILL provides nitrogen and potassium in an easily absorbed form and helps remobilisation of food reserves to developing grains during the grain filling stage. Potassium helps extend the grain filling duration.

#### IMPROVED NITROGEN REMOBILISATION

Nitrogen and Potassium in Active GrainFILL help build new tissues after pollination and fertilisation. Nitrogen plays a key role in achieving high grain yield with adequate protein content. Active GrainFILL contains 12 free amino acids to help the nitrogen remobilisation process.

#### REDUCES ABIOTIC STRESSES

Vitamin B complex, ascorbic acid and amino acids in Active GrainFILL help plants during stress situations by acting as osmolytes (cell pressure regulators), regulating ion transport, modulating stomatal opening, and detoxifying heavy metals.

#### OPTIMISES GRAIN SIZE AND WEIGHT

Cytokinin, present as kinetin in Active GrainFILL, enhances cell division and expansion in developing grains, helping it to achieve optimal size and weight.

#### WHEAT • 2021 AVERAGE PROTEIN & YIELD - AGQUEST

TREATMENT	PROTEIN CONTENT (%)	PROTEIN INCREASE (%)	YIELD (kg/ha)	YIELD INCREASE (kg/ha)	% CHANGE
Control	20.7		1520		
Active GrainFILL™	21.9	1.2	1870	350	23%

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