



KLOROFILL



**BOOST
YOUR PLANTS'
SOLAR PANELS**



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**innovation
range**

#InnovationImpact



A unique crop enhancer that improves chlorophyll production and maximises green leaf area.

Klorofill™ contains pentanoate - an organic keto acid-based compound that is a unique biological precursor to chlorophyll synthesis. Pentanoate reverses the chlorophyll suppression that a plant may experience during rapid growth, for example, at flag leaf stage.

By increasing chlorophyll production, Klorofill maximises green leaf area and plant biomass, boosting crop growth and therefore yield.



CE marked in accordance with the EU Fertilising Products Regulation (EU) 2019/1009, confirming compliance with EU-wide standards for safety, quality, and efficacy.

What does it do?

Klorofill™ improves crop growth and productivity by:

- Increasing chlorophyll production to boost photosynthetic efficiency
- Maximising green leaf area to extend the plant's solar capture capacity
- Supporting rapid biomass development and strong canopy structure
- Enhancing nutrient use efficiency throughout the growing season
- Helping crops maintain greenness under growth pressure or environmental stress

Application

CROP	RATE	APPLICATION TIMING RANGE
Winter cereals (excluding malting barley)	1.0 l/ha	GS 21-45
Spring cereals (excluding malting barley)	2 x 1.0 l/ha	GS 21-59
Malting barley	1.0 l/ha	up to GS 31
Oilseed rape	1.0 l/ha	Up to final pod set

How does it do it?

Pentanoate in Klorofill™ reverses the suppression of the chlorophyll biosynthesis pathway which is caused during stressful conditions – natural growth stress or additional biotic or abiotic stress. This increases chlorophyll production enhances the photosynthetic rate and gas exchange maximising crop growth and development.

Features



- Liquid formulation for easy handling and application
- Tank-mixable with standard crop protection and nutrition products
- Supplied in convenient 10 L packs
- Contains pentanoate, a unique biochemical precursor for chlorophyll synthesis

Benefits



- Higher chlorophyll levels and increased photosynthetic rate
- Maximised green leaf area for improved light capture
- Enhanced plant biomass and overall crop vigour
- Improved nutrient efficiency and utilisation



Results

Boosting chlorophyll content compared to a competitor amino acid product, Klorofill at 1.0l/ha offers an additional 19% increase in Mg/cm² of chlorophyll.

Product	Mg/cm ² chlorophyll	% change
Competitor product (2l/ha)	0.0367	
 Klorofill	0.0435	19%

19%
increase in chlorophyll
compared to competitor product

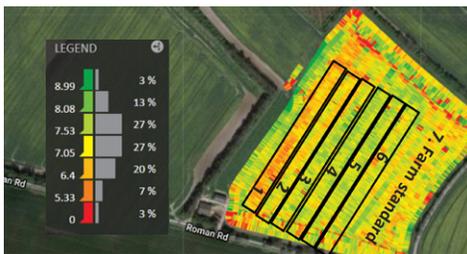
A trial from 2019 demonstrates a visible improvement in green leaf area. This is also shown in the following yield map of spring barley, captured from an independent trial. Plots 4 and 5 were treated with Klorofill at 1.0l/ha, with the same nitrogen regime as farm standard plot 7.



Untreated

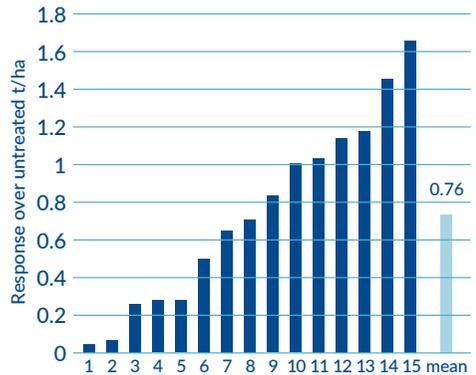


Klorofill



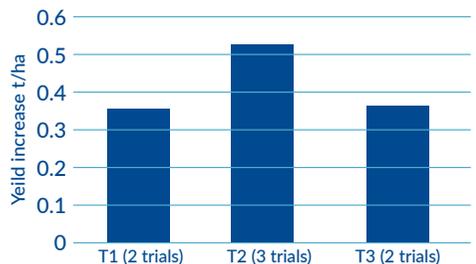
Replicated manufacturer trials conducted 2018/19 in Suffolk demonstrated that Klorofill can increase winter wheat yield by 0.76 t/ha, compared to untreated.

Yield response in winter wheat



By selecting a targeted approach to Klorofill application, growers can maximise the impact of the product. A series of winter wheat trials by Envirofield in 2018 demonstrate the effectiveness of using Klorofill at T2 timing.

Comparison of application timings in winter wheat





innovation range

Making a **real impact** on your farm

Bioscience products for healthier, productive crops. #InnovationImpact



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