

ALZON[®] 33-S

The starter

**NEW
PRODUCT**

- ✓ More yield
- ✓ High nitrogen-use efficiency
- ✓ Fewer split applications
- ✓ Optimum sulphur supply
- ✓ Reduced nitrous oxide emissions

ALZON[®] 33-S adapts flexibly to every situation. The combination of stabilised nitrogen and sulphur ensures a reliable supply of nutrients, exceptionally high yield performance and high nitrogen-use efficiency. The nitrification inhibitor in ALZON[®] 33-S can prevent up to 50% of nitrous oxide emissions. The product therefore makes a significant contribution to climate protection. The agronomically favourable nitrogen-to-sulphur ratio improves protein formation and the quality of harvested produce in sulphur-demanding crops.



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EU fertilising product

PFC 7 – Fertilising product blend: solid inorganic single-nutrient macronutrient fertiliser.
Fertiliser with a nitrification inhibitor: ammonium sulphate-urea with nitrification inhibitor (MPA), N-S 33-12.

33% total nitrogen (N):
22.6% urea nitrogen and
10.4% ammonium nitrogen.
12% water-soluble sulphur (S).

At least 0.0199% nitrification inhibitor.

Ingredients:
urea (CAS: 57-13-6)*;
ammonium sulphate (CAS: 7783-20-2)*.

*Substances and mixtures derived from unprocessed raw materials.

Particle size: 1.6–5.0 mm;
mean particle diameter: 3.5 mm;
bulk density: approx. 730 kg/m³;
colour: light grey.

ALZON[®] 33-S



The MPA nitrification inhibitor

The nitrification inhibitor (MPA) delays the conversion of nitrogen from the stable ammonium fraction to the mobile nitrate fraction by a factor of two to four. This substantially reduces the risk of nitrate losses and denitrification losses in the form of nitrous oxide or N₂.

Starter fertiliser with sulphur

Most agricultural crops require between 10 and 70 kg S/ha. Atmospheric sulphur inputs and the supply from the soil are therefore no longer sufficient to replace the amount removed by average-yielding crops. Higher yield and quality targets have also increased sulphur removal.

Application recommendations:

Crop	N rate kg/ha N	S rate kg/ha S	ALZON [®] 33-S dt/ha	Timing / application strategy
Oilseed rape	80 – 180	33 – 65	2.4 – 5.5	One application before or at the start of the growing season.
Quality, Group A and Group B wheat (two-application strategy)	80 – 200	33 – 73	2.4 – 6.1	Split application: 50–70% before/at the start of the growing season (ALZON [®] 33-S), and 30–50% as a flexible stem-extension application (PIAGRAN [®] pro).
Feed wheat (C wheat)	80 – 180	33 – 65	2.4 – 5.5	At ≤160 kg N/ha: one application before/at the start of the growing season (ALZON [®] 33-S).
Winter rye	80 – 180	33 – 65	2.4 – 5.5	At ≥160 kg N/ha: split 50–70% before/at the start of the growing season (ALZON [®] 33-S) and 30–50% as a flexible stem-extension application (PIAGRAN [®] pro).
Spring cereals	80 – 160	33 – 58	2.4 – 4.9	Before or at the start of the growing season; see local crop requirements.
Malting barley	60 – 160	22 – 58	1.8 – 4.9	
Maize	60 – 120	22 – 44	1.8 – 3.6	
Potatoes	60 – 160	22 – 58	1.8 – 4.9	
Sugar beet	60 – 160	22 – 58	1.8 – 4.9	
Zuckerrüben	60 – 160	22 – 58	1.8 – 4.9	Approximately two weeks before sowing.



Questions?
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